

MULTIPLE CHOICE QUESTION
VETERINARY SCIENCE & ANIMAL HUSBANDRY

NOTE:- Tick Mark the Most Appropriate Answer from the following.

1. Punched ulcers in abomasums of cattle are characteristic of :
 - a. *Theilaria annulata*
 - b. *Babesia bigemina*
 - c. *Haemonchus contortus*
 - d. *Ostertagia ostertagi*
2. Typical sign of ripened abscess is
 - a. Swelling
 - b. Pain
 - c. Fluctuation
 - d. Pointing
3. Operation flood I was launched during
 - (a) 1960
 - (b) 1970
 - (c) 1980
 - (b) 1982.
4. When world environmental day celebrated.....
 - a) 15th June
 - b) 5th July
 - c) 15th July
 - d) 5th June
5. Right side displacement of abomasums is usually caused after
 - a) Immediately postpartum
 - b) 2-4 weeks postpartum
 - c) During gestation
 - d) 9-12 months postpartum
6. The term that refers to the percentage of packed erythrocytes per unit volume of blood is the:
 - a. Differential Count
 - b. Hemoglobin
 - c. Hematocrit
 - d. Hemopoiesis
7. Which of the following enzymes are present in the acrosome of the bovine sperm?
 - a. Trypsin
 - b. Adenylate cyclase
 - c. Phospholipase C (PLC)
 - d. Acrosin

8. Which of the following is the smallest compartment of the ruminant stomach?
- Rumen
 - Reticulum
 - Omasum
 - Abomasum
9. Blood is added in blood medium agar at following concentration:
- 5-10 %
 - 15 %
 - 20 %
 - 2 %
10. The 5 carbon sugar compound present in DNA molecule is:
- Erythrose
 - Deoxyribose
 - Ribose
 - Ribulose
11. Study of birds which are not classed as poultry is known as
- Poultry Science
 - Ornithology
 - Bird Science
 - Poultry Production
12. Inhibition of aggregation of platelets
- Aspirine
 - Urokinase
 - Thromboxane A₂
 - Streptokinase
13. Gajrai grass is the fodder grass belong to group
- Seasonal
 - Annual
 - Perennial
 - None
14. Which of the following will be the number of chromosomes in the sperm of a Sahiwal bull?
- 30
 - 60
 - 50
 - 25
15. Skim milk powder is a byproduct of
- Industrial
 - Grain
 - Cereal
 - Roughage

16. East coast fever in cattle is caused by :
(a) Theileria
(b) Trypanosoma
(c) Babesia
(d) None
17. Wound does not heal is known as
a. Maggot wound
b. Ulcer
c. Infected wound
d. Contaminated wound
18. 73rd amendment act 1992 was introduced to strengthen
a Dairy development
b Community development
c Panchayat development
d Co-operative development
19. CFC's are responsible for depletion of.....
a) Ozone
b) Oxygen
c) Carbon
d) Nitrogen
20. Serum calcium and phosphorus concentration in nutritional dystrophies may
a) Increase above normal level
b) decrease above normal level
c) Decrease appreciably
d) remain with-in normal range
21. Which of the following is a circulating blood cell that is capable of differentiating into a plasma cell?
a. Neutrophil
b. Basophil
c. B lymphocyte
d. T lymphocyte
22. After ovulation, which of the following is most important for the rapid movement of the oocyte to the ampular-isthmic junction of the oviduct?
a. Fluid production by the isthmus
b. Cillilary beating in the ampulla
c. Muscle contractions in the ampulla
d. The presence of cumulus cells surrounding the oocyte at ovulation.
23. Which is the hardest substance in the animal body?
a. Bone
b. Cartilage
c. Enamel

d. Dentine

24. Nucleic acid present in virus
- a) DNA
 - b) RNA
 - c) Either DNA or RNA
 - d) Both DNA and RNA
25. The synthesis of new DNA strand on template strand takes place in the direction of:
- a. 3'-5'
 - b. 5'-3'
 - c. In both the directions
 - d. In 3'-5' on leading strand and in 5'-3' direction on lagging strand
26. Study of birds which are classed as poultry is known as
- a. Poultry Science
 - b. Ornithology
 - c. Bird Science
 - d. Poultry Production
27. Verapamil blocks transport of
- a) Sodium ion
 - b) Chloride ion
 - c) Calcium ion
 - d) Potassium ion
28. Subabul is the grass originated in the country
- a. Mexico
 - b. U. S. A.
 - c. Brazil
 - d. India
29. Genotype of purebred Rose comb hen should be
- a) RrPp
 - b) RRPp
 - c) RRpp
 - d) rrpp
30. Example of protein is
- a) Peptide
 - b) Amine
 - c) Amino acid
 - d) Glutamine
31. Caecal coccidiosis in fowl is due to which of the following :
- (a) *Eimeria precox*
 - (b) *Eimeria mutis*
 - (c) *Eimeria tenella*

(d) *Eimeria brunetti*

32. The main cause of death in case of burn during latter stage is
- Hypovolemia
 - Blood loss
 - Asphyxia
 - Secondary infection
33. Ranching is common practice in
- India
 - Australia
 - Japan
 - USA
34. Humidity is measured by.....
- Luxmeter
 - Dry bulb thermometer
 - Wet bulb thermometer
 - Chlorinometer
35. Increase survival rate of *S. pullorum* infected chick embryo is achieved by drug
- Chloramphenicol
 - Furazolidon
 - Oxytetracycline
 - Colistin
36. The component of plasma responsible for maintaining the osmotic pressure of blood is:
- Plasmin
 - Albumin
 - Fibrinogen
 - Gamma globulin
37. Following artificial insemination in the cow, increased retrograde flow will occur if semen is placed in which of the following locations?
- Cervix
 - Uterine body
 - Uterine horn, at the greater curvature (half way up the uterine horn)
 - At the distal tip of the uterine horn
38. Which is the largest foramen in the skull?
- Foramen magnum
 - Supraorbital foramen
 - Infra orbital foramen
 - Mantel foramen
39. Short hair like projections for attachment and genetic transfer in bacteria are:

- a) Flagella
 - b) Fimbria
 - c) Plasmid
 - d) All
40. The autonomously replicating extra-chromosomal double stranded DNA molecule present in bacteria is called:
- a. Plasmid
 - b. Episome
 - c. Phage
 - d. Transposon
41. Modern chicken are descendents of the which following wild species
- a. *Gallus soneratti*
 - b. *Gallus lafeyetti*
 - c. *Gallus varius*
 - d. *Gallus gallus*
42. The most appropriate anticoagulant used for collection of blood for blood glucose estimation
- a) Sodium EDTA
 - b) Sodium fluoride
 - c) Heparin
 - d) Sodium oxalate
43. Swath curing is the method apply to
- a. Cutting the crop
 - b. Hay making
 - c. Silage making
 - d. Straw making
44. The strength of selection is expressed as
- (a) Coefficient of selection
 - (b) Response to selection
 - (c) Selection differential
 - (d) None
45. Inflammation of lymph node is called as-
- (A) Lymphangitis
 - (B) Lymphadenitis
 - (C) Typhilitis
 - (D) Both (A) and (B).
46. Example of NPN is
- a) Albumin
 - b) Amino acid
 - c) Prolamine
 - d) Lignin
47. Example of anaerobic protozoa is :
- (a) Leishmania

- (b) Trichomonas
 - (c) Trypanosoma
 - (d) None of the above
-
- 48. Last stage of wound healing is
 - a. Wound contraction
 - b. Epithelization
 - c. Fibroplasia
 - d. Vasodilatation
 - 49. The approach in which people have their say in programmed planning is
 - (A) Democratic
 - (B) Authoritative
 - (C) Directive
 - (D) Laissez-faire
 - 50. The metal should not be used for storage of rain water is.....
 - a) Iron
 - b) Galvanized iron
 - c) Lead
 - d) Copper
 - 51. Virion of avian infectious bronchitis has a shape of
 - a) Globules with cilia
 - b) crown like projection
 - c) Oval shaped body
 - d) elliptical round body
 - 52. Plasma is:
 - a. Blood that has no red blood cells
 - b. The liquid portion of blood including the clotting factors
 - c. The liquid portion of blood minus the clotting factors
 - d. The proteins of blood
 - 53. The concentration of sperm in the ejaculate would be highest among which of the following farm animal species?
 - a. Bull
 - b. Ram
 - c. Boar
 - d. Stallion
 - 54. Which of the bone is the hardest bone in the animal body?
 - a. Femur
 - b. Tibia
 - c. Petrous temporal
 - d. Humerus
 - 55. The term antibiotic was first used by:
 - a) Domagk

- b) Fleming
- c) Waksman
- d) Robert Koch

56. The scientists associated with discovery of “restriction endonucleases”:
- a. Lederberg
 - b. Kelly & Smith
 - c. Dulbecco
 - d. Korenberg
57. National Institutes of Nutrition (NIN) to Government of India has recommended eggs and poultry meat consumption per capita per annum are
- a. 18 eggs and 9 kg of poultry meat
 - b. 180 eggs and 0.90 kg of poultry meat
 - c. 180 eggs and 9.0 kg of poultry meat
 - d. 180 eggs and 11.0 kg of poultry meat
58. Receptors of CTZ stimulated by centrally acting emetics are
- a) α_1
 - b) α_2
 - c) β_1
 - d) Dopamine
59. For ensiling the fodder crop should contain moisture percent
- a. 40 to 50
 - b. 50 to 60
 - c. 65 to 70
 - d. 70 to 75
60. What will be the phenotypic ratio in progenies from a cross between creeper and normal fowl
- a) 1:1
 - b) 3:1
 - c) 9:7
 - d) 2:1
61. DCP content of Guinea grass
- a) 50%
 - b) 5%
 - c) 15%
 - d) 1%
62. Disease of poultry which is not caused by virus is-
- (A) Chronic respiratory Disease
 - (B) Infectious Bronchitis
 - (C) Fowl Pox
 - (D) Ranikhet Disease.

63. Wild game is reservoir host for which parasite :
(a) *Trypanosoma evansi*
(b) Taenia
(c) *Entamoeba histolytica*
(d) Coccidia
64. The best treatment of fistula is
a. Antibiotics
b. Antibiotics and corticosteroids
c. Surgical removal
d. Counter irritants
65. In IRDP, SC/ST and physical handicapped beneficiaries are provided subsidy @
Percent
(A) 10
(B) 25
(C) 33
(D) 50
66. Among following is the safest source of drinking water.....
a) Shallow well
b) Surface water
c) River
d) Deep well
67. If vomition due to metabolic acidosis suggested fluid therapy is
a) Ringers lactate
b) Normal saline
c) Dextrose saline
d) Dextrose saline 20%
68. Excessive destruction of erythrocytes is characteristic of:
a. Thalassemia
b. Aplastic anemia
c. Pernicious anemia
d. Hemolytic anemia
69. Which of the following are examples of the maturation function in the epididymis?
a. Removal of protoplasmic droplets
b. Concentration of sperm
c. Secretion of glycoproteins by principle cells
d. Contractions of smooth muscle
70. Which of the following is tendineous linear sheet present at the abdominal floor?
a. Linea alba
b. Rectus abdominis
c. Fascia

- d. Tendoachillis
71. Agar is a source of carbohydrate to:
- a) Most of the bacteria
 - b) Only a few bacteria
 - c) None of the bacteria
 - d) All the bacteria
72. The acquisition of DNA molecule by bacterial cells from environment is called:
- a. Transformation
 - b. Transduction
 - c. Conjugation
 - d. None
73. First poultry show was held at Boston in the year
- a. 1838
 - b. 1870
 - c. 1861
 - d. 1849
74. Agar acts as a
- a) Cathartics
 - b) Emollient purgative
 - c) Bulk purgative
 - d) Osmotic purgative
75. Mango seed kernel is the byproduct of industry
- a. Canning industry
 - b. Oil industry
 - c. Gluten industry
 - d. None
76. Proportion of Roan polled progenies from a cross between Red polled (Pp) and white polled (pp) cow will be
- a) 0.25
 - b) 0.50
 - c) 0.75
 - d) 0.60
77. Bronze discolouration of Liver in poultry is caused by-
- (A) Pasteurellosis
 - (B) IBD Virus
 - (C) Leptospirosis
 - (D) Salmonellosis
78. Rich source of carbohydrates
- a) Barley

- b) Bone meal
 - c) Cotton seed
 - d) Dub grass
79. Tape worm increases in which of the following :
- (a) Liver
 - (b) Caecum
 - (c) Small intestine
 - (d) None
80. Typical sign of moist gangrene of tail is
- a. Erected hairs
 - b. Immobility of tail
 - c. Swelling
 - d. Cold to touch
81. In First five year plan -----programmed was started for development of animal Husbandry common alone
- (A) Operation flood I
 - (B) Key village scheme
 - (C) ICDP
 - (D) Gosadan
82. Causative agent of undulant fever is.....
- a) *Br. abortus*
 - b) *Br. melitensis*
 - c) *Br. suis*
 - d) *Br. Equi*
83. Coughing up of blood is termed as
- a) Haematemesis
 - b) Epistaxis
 - c) Metrorrhagia
 - d) Haemoptysis
84. A hematocrit of 80 would be considered:
- a. Polycythemia
 - b. Anemia
 - c. Thrombocytopenia
 - d. Leukemia
85. The ATP produced by sperm goes towards which of the following?
- a. Motility
 - b. Maturation of sperm
 - c. Lysis of corona radiate
 - d. Transcription and translation
86. Which of the following is the longest ligament in the animal body?
- a. Broad ligament

- b. Umbilical ligament
 - c. Supraspinatous ligament
 - d. Caudate ligament
87. Bacteria that grow at 50-55⁰ C are known as:
- a) Psychrophiles
 - b) Mesophiles
 - c) Thermophiles
 - d) Halophiles
88. The ability of the cell to acquire DNA from environment is called:
- a. Competence
 - b. Compatibility
 - c. Interference
 - d. None of the above
89. Per capita availability of poultry eggs and meat are respectively
- a. 44 nos. and 17.6 kg.
 - b. 176 nos. and 44 kg.
 - c. 44 nos. and 1.76 kg.
 - d. 176 nos. and 4.4 kg
90. Acid rebound effect is observed with
- a) Sodium bicarbonate
 - b) Sodium citrate
 - c) Sodium chloride
 - d) Potassium iodide
91. Rotational stocking is the method of
- a. Storage of feed
 - b. Feeding of animal
 - c. Grazing of animal
 - d. Management of pasture
92. The cross over percentage ranges between
- a) 80 -100 %
 - b) 50 -100 %
 - c) 0- 50 %
 - d) 50 – 80 %
93. Fragmentation of nucleus in a cell is termed as-
- (A) Pyknosis
 - (B) Karyorrhexis
 - (C) Karyolysis
 - (D) Chromatolysis
94. Concentrate is a feed containing more than % TDN
- a) 20

- b) 10
c) 60
d) 30
95. Triangular and pyriform apparatus like cooked rice grain present in egg of :
(a) *Moniezia sp.*
(b) *Hymenolepis nana*
(c) *Dipylidium sp*
(d) *Taenia sp.*
96. Common site of occurrence of haematoma in dog is
a. Ear
b. Eyelid
c. Tail tip
d. Digit
97. Prime goal of state department of animal husbandry and dairying is to provide ----
---- To the farmers
(A) Subsidy
(B) Input
(C) Service
(D) Semen
98. The causative agent of hydatidiosis is.....
a) *Echinococcus granulosa*
b) *Diphylobothrium spp.*
c) *Taenia solium*
d) *Taenia saginata*
99. Ptyalism is
a) Excessive secretion from Brunner's gland
b) Excessive salivation
c) Decrease secretion from salivary gland
d) Decrease secretion of succus entericus
100. During hemoglobin recycling in the spleen, heme is initially converted into:
a. Bilirubin
b. Stercobilin
c. Urobilin
d. Urobilinogen
101. Failure of the blood testis barrier would directly prevent
a. Stem cell renewal.
b. Spermatocytogenesis.

- c. Meiosis.
 - d. Spermiogenesis.
102. Which of the following is unpaired skeletal muscle present in the animal body?
- a. Diaphragm
 - b. Biceps brachii
 - c. Popliteus
 - d. Quadriceps femoris
103. Nucleic acid not found in plasmids is:
- a) DNA
 - b) RNA
 - c) either DNA or RNA
 - d) Both DNA and RNA
104. First Genome sequenced was of
- a. Bacteriophage λ
 - b. Bacteriophage ϕ X 174
 - c. *Haemophilus influenza*
 - d. Homo sapiens
105. Total contribution of poultry production to the National GDP of India is nearly
- a. 1.0 %
 - b. 0.1 %
 - c. 10 %
 - d. 8 %
106. Which one of the following is a rate limiting step in adrenaline synthesis?
- a) Tyrosine to DOPA
 - b) DOPA to Dopamine
 - c) Dopamine to Nor-adrenaline
 - d) None of the above
107. The synonym of Anjan grass is
- a. Dhaman
 - b. Shevari
 - c. Ghamar
 - d. Jinjavo
108. Slow and fast feathering trait in poultry is
- a) Sex linked
 - b) sex limited trait
 - c) sex influenced
 - d) autosomal
109. Infectious Necrotic Hepatitis in sheep is caused by-
- (A) *Leptospira* sp.
 - (B) *Fasciola hepatica*
 - (C) *Clostridium* sp.
 - (D) *Heterakis gallinarum*

110. Green fodder to be ensiled should have DM between
- 50 to 60%
 - 30 to 35%
 - 20 to 25%
 - 15 to 20%
111. All domestic animal is definitive host for which of the following :
- Moniezia sp.*
 - Hymenolepsis nana*
 - Dipylidium sp*
 - Taenia sp.*
112. The best suture material for peritoneum in dog is
- Catgut # 1
 - Catgut # 1/0
 - Catgut # 2
 - Catgut # 3
113. Programmed is the statement of situation ----- problem and solution
- Physical resources
 - Objectives
 - Planning
 - Goal
114. Sellar's staining technique is used for diagnosis of.....
- Rabies
 - Brucellosis
 - Listeriosis
 - Tuberculosis
115. Tympany of diaphragmatic hernia is
- Recurrent
 - Persistent
 - Both 1 and 2
 - None of the above
116. All of the following conditions impair coagulation except:
- Vascular spasm
 - Vitamin K deficiency
 - Severe hypocalcaemia
 - Liver disease
117. Spherical bodies, weighing 0.45 – 0.9 kg, attached to the placenta of a normal calf comprising of an outer skin enclosing a mass of adipose connective tissue is known as
- Perosomus elumbis*

- b) *Amorphus globosus*
 - c) Otter calf
 - d) *Schistosomus reflexus*
118. Which one of the following is the longest nerve in the animal body?
- a. Vagus
 - b. Sciatic
 - c. Femoral
 - d. Median
119. Disposable articles are best sterilized by:
- a) Hot air oven
 - b) Autoclave
 - c) Gamma radiation
 - d) Alcohol
120. First bacterial genome sequenced was of
- a. *Salmonella typhimurium*
 - b. *Bacillus anthracis*
 - c. *Pseudomonas aeruginosa*
 - e. *Haemophilus influenza*
121. Female Hen has a following set of chromosomes
- a. Xx
 - b. Xw
 - c. Zz
 - d. Zy
122. Which of the following drugs is used in treating digitalis arrhythmia?
- a) Lignocaine
 - b) Quinidine
 - c) Procainamide
 - d) None of the above
123. *Medicago sativa* is the botanical name of
- a. Alfalfa
 - b. Berseem
 - c. Guar
 - d. Cowpea
124. Stage of cell division in which chiasmata formation takes place is
- a) Metaphase I
 - b) Pachytene
 - c) Diakinesis
 - d) Anaphase
125. The animal resistant to Atherosclerosis is-
- (A) Cattle
 - (B) Swine

- (C) Rabbit
(D) Poultry.
126. Lucerne hay contains % TDN
a) 10
b) 30
c) 20
d) 50
127. In which tape worm, uterus is long transverse and dumbbell shape :
(a) *Stilesia hepatica*
(b) *Thysanosoma actinoides*
(c) *Thysaneizia giardia*
(d) *Anaplocephala magna*
128. Which of the following is unpaired skeletal muscle present in the animal body?
a. Diaphragm
b. Biceps brachii
c. Popliteus
d. Quadriceps femoris
129. Which one of the following is the longest nerve in the animal body?
a. Vagus
b. Sciatic
c. Femoral
d. Median
130. Which of the following is the largest nerve in the animal body?
a. Radial
b. Sciatic
c. Femoral
d. Median
131. Which one of the following nerve supplying to blood vessel?
a. Vasomotor
b. Sensory
c. Mixed
d. Motor
132. Which of the following is a spindle shaped glandular stomach of the bird?
a. proventriculus
b. fundic part

- c. Gizzard
- d. pyloric part

133. In modern smoke house, we can control

- a) Temperature
- b) Moisture
- c) Flavour
- d) None of the above

134. Which of the following is a opening of abomasum into the duodenum?

- a. Pylorus
- b. cardia
- c. rima oris
- d. Isthmus faucium

135. Stage of cell division in which chiasmata formation takes place is

- a) Metaphase I
- b) Pachytene
- c) Diakinesis
- d) Anaphase

136. The Frequency for any class that is obtained by dividing the frequency for that class by the total number of observations is known as

- (a) Class frequency
- (b) Relative frequency
- (c) Cumulative frequency
- (d) Grouped frequency

137. The dose of a drug that kills 50 % of the population is known as

- (a) ED_{50}
- (b) LD_{50}
- (c) KD_{50}
- (d) Half life dose

138. Exchange of non homologous chromosome material is known as

- a) Translocation
- b) Crossingover
- c) Duplication
- d) Synapsis

139. The terms gene and genotype were coined by

- (a) Wilson
- (b) Johanssen
- (c) Mendel
- (d) Weisman

140. Spherical bodies, weighing 0.45 – 0.9 kg, attached to the placenta of a normal calf comprising of an outer skin enclosing a mass of adipose connective tissue is known as
- Perosomus elumbis
 - Amorphus globosus
 - Otter calf
 - Schistosomus reflexus
141. Obturator paralysis is more common in
- Mare
 - Cow
 - Bitch
 - ewe
142. Early insemination during estrous leads to fertilization failure due to
- Ageing of sperms
 - Ageing of zygote
 - Ageing of ovum
 - none of above
143. The relations of the dorsum of the fetus to the quadrants of the maternal pelvis is
- Presentation
 - Position
 - Posture
 - None of the above
144. Sterno abdominal presentation is a
- Posterior longitudinal presentation
 - Transverse ventral presentation
 - Anterior longitudinal presentation
 - Transverse dorsal presentation
145. Balwant Ray Mehta committee was appointed by
- Govt. of India
 - planning commission
 - State govt.
 - NGO
146. Post is example of -----aid.
- Visual
 - Audio
 - A.V.
 - Projected
147. Who is the architect of Indian modern dairy industry?
- Dr. V.Kurian
 - Dr. Amrita Patel
 - Shree Parthi Bhatol

- (D) MansiBhai
148. Operation Flood III Was Launched during
- (A) 1986
 - (B) 1990
 - (C) 1992
 - (D) 1998
149. The synonym of Anjan grass is
- a. Dhaman
 - b. Shevari
 - c. Ghamar
 - d. Jinjavo
150. *Medicago sativa* is the botanical name of
- a. Alfalfa
 - b. Berseem
 - c. Guar
 - d. Cowpea
151. The nitrogen content (%) of urea fertilizer is
- a. 38
 - b. 42
 - c. 46
 - d. 50
152. Licking of wall is the vices observed in animal due to
- a. Mineral deficiencies
 - b. Internal parasites
 - c. Depraved appetite
 - d. All of the above
153. Wind sucking is the vice observed in the species
- a. Pig
 - b. Cattle
 - c. Horse
 - d. None of above
154. Mediterranean chicken breeds egg shell colour is
- a. Brown
 - b. White
 - c. Brown and white
 - d. All of above
155. American chicken breeds skin colour is

- a. Brown
 - b. Yellow
 - c. White
 - d. Black
156. Medusa head colonies are characteristic feature of.....
- a) *Rickettsia spp.*
 - b) *Bacillus anthracis*
 - c) *Clostridium botulinm*
 - d) *Listeria spp.*
157. Ring worm infection is caused by.....
- a) *Nocardia spp.*
 - b) *Trichophyton spp.*
 - c) *Candida spp.*
 - d) *Dermatophillus spp.*
158. Curdling without pronounced acid production associated with milk and milk products.....
- a) Sweet curdling
 - b) Acid curdling
 - c) Curdling
 - d) Alkaline curdling
159. Type of microbial association in which in which food chain i.e. the metabolic products of one are utilized by the other.....
- a) Metabolism
 - b) Symbiosis
 - c) Fermentation
160. Which of the following breeds of class is known for egg production
- a. American breed
 - b. Asiatic breeds
 - c. English breeds
 - d. Mediterranean breeds
161. Which of the following breeds of class has feathered shank
- a. American breed
 - b. Asiatic breeds
 - c. English breeds
 - d. Mediterranean breeds
162. Which of the following is smallest tape worm of poultry :
- (a) *Ralleitina tetragona*
 - (b) *Ralleitina echinobothridia*
 - (c) *Davainea proglotina*
 - (d) *Hymenolepis nana*
163. Indian liver fluke is which of the following :
- (a) *Prosthogonimum sp.*
 - (b) *Paramphistomes sp.*

- (c) *Fasciola hepatica*
(d) *Fasciola gigantica*
164. Ovary much lobulated in which of the following :
(a) *Prosthogonimus sp.*
(b) *Paramphistomes sp.*
(c) *Fasciola hepatica*
(d) *Fasciola gigantica*
165. Haemoglobinuria is seen in-
(A) Theileriosis
(B) Leptospirosis
(C) Salmonellosis
(D) Pasturellosis.
166. Who is the father of Cellular Pathology?
(A) John Hunter
(B) Robert Koch
(C) Rudolph Virchow
(D) K.Cohnhiem.
167. Pseudo Rabies is caused by-
(A) Lyssa virus
(B) Picorna virus
(C) Paramyxo virus
(D) Herpes virus.
168. Pulpy Kidney Disease is caused by-
(A) *Clostridium perfringens*
(B) *Clostridium septicum*
(C) *Clostridium novyi*
(D) *Clostridium tetani*
169. Turkey Egg Kidney is seen in-
(A) Swine Pox
(B) Swine Influenza
(C) Swine Fever
(D) Swine Erysipelas.
170. Antiseptics used for cleaning of eye is
a. Dettol
b. Boric acid
c. Tr. iodine
d. Zinc oxide
171. More than two fracture fragments with interconnecting fracture line in complete fracture is known as

- a. Multiple fracture
 - b. Comminuted fracture
 - c. Depressed fracture
 - d. Fissure fracture
172. Pathognomic signs of fracture is
- a. Crepitation
 - b. Pain
 - c. Swelling
 - d. Loss of function
173. Which of the following is a unicellular gland that is typically found in mucosal epithelium?
- a. Neuroepithelial cell
 - b. Myoepithelial cell
 - c. Goblet cell
 - d. Friar cell
174. Which of the following cells is primarily responsible for the production of collagen and the amorphous ground substance in loose connective tissue?
- a. Adipocyte
 - b. Fibroblast
 - c. Mast cell
 - d. Plasma cell
175. Which of the following describes a secretory process in which no cell membrane components or cytosolic contents are lost?
- a. Merocrine
 - b. Apocrine
 - c. Holocrine
 - d. Endocrine
176. The matrix of connective tissue is composed of:
- a. Cells, fibers, and ground substance
 - b. Cells and fibers
 - c. Fibers and ground substance
 - d. Cells and ground substance
177. Following is not an effect of the Ganglionic blockade
- a) Dry mouth
 - b) Anhydrosis
 - c) Tachycardia
 - d) Vasoconstriction
178. Magnesium sulphate has following effects except
- a) CNS depressant
 - b) Purgative
 - c) Muscle relaxant
 - d) Diuretic
179. Which one of the following is an osmotic diuretic?

- a) Magnesium sulphate
 - b) Ethacrynic acid
 - c) Spironolactone
 - d) None of the above
180. What is the site of action of carbonic anhydrase inhibitors?
- a) Throughout the length of the tubule
 - b) Loop of Henle
 - c) PCT
 - d) DCT
181. Viruses having Reverse transcriptase enzyme:
- a) Retro virus
 - b) Reo virus
 - c) Rabies virus
 - d) Rota virus
182. Holoenzyme is a combination of:
- a) enzyme and substrate
 - b) Apoenzyme and substrate
 - c) Apoenzyme and coenzyme
 - d) None of the above
183. Following statements are correct except.
- a. Viruses multiply only in living cells.
 - b. Viral nucleic acid directs cell metabolism to synthesize viral components
 - c. Viruses are not able to perform their own metabolic activities.
 - d. Viral genetic information resides only in DNA not in RNA
184. First Genome sequenced was of
- a. Bacteriophage λ
 - b. Bacteriophage ϕ X 174
 - c. *Haemophilus influenza*
 - d. Homo sapiens
185. First bacterial genome sequenced was of
- a. *Salmonella typhimurium*
 - b. *Bacillus anthracis*
 - c. *Pseudomonas aeruginosa*
 - e. *Haemophilus influenza*
186. First human protein produced in micro-organism was:
- a. Somatostatin
 - b. Insulin
 - c. Protopin
 - d. None of the above
187. The intercalating dye used to visualize double stranded DNA is

- a. Ethidium bromide
 - b. Methylene blue
 - c. Carbol fuchsin
 - d. None of the above
189. The concentration of double stranded DNA molecule which gives absorbance value of 1.0 at 260 nm is:
- a. 33 $\mu\text{g/ml}$
 - b. 40 $\mu\text{g/ml}$
 - c. 50 $\mu\text{g/ml}$
 - d. Cannot be determined on the basis of absorbance value
190. The concentration of single stranded DNA molecule which gives absorbance value of 1.0 at 260 nm is:
- a. 33 $\mu\text{g/ml}$
 - b. 40 $\mu\text{g/ml}$
 - c. 50 $\mu\text{g/ml}$
 - d. Cannot be determined on the basis of absorbance value
191. Which of the following cells lines the ventricle of the brain?
- a. Ependymal cell
 - b. Simple squamous cell
 - c. simple cuboidal cell
 - d. Simple columnar cell
192. The bony demarcation between abdominal and pelvic cavities is:
- a. Pelvic outlet
 - b. Pelvic diaphragm
 - c. Plevic brim
 - d. Pelvic symphysis
193. In which part of the cloaca in birds, bursa of fabricus opens?
- a. Urodeum
 - b. Proctodeum
 - c. Coprodeum
 - d. Vent
194. Which is the space between right and left pleural sac in thoracic cavity?
- a. Omentum
 - b. Mediastinum
 - c. Serous sac
 - d. pleural sac
195. Which of the following is the largest vein in the animal body?
- a. Saphenous vein
 - b. Posterior venacava
 - c. Anterior venacava
 - d. Mammary vein

196. Which of the following is the longest bone in birds?
a. Femur
b. Humerus
c. Tarsometatarsus
d. Tibiotarsus
197. Mendel's work was rediscovered in the year
(a) 1895
(b) 1900
(c) 1905
(d) 1913
198. Holandric inheritance is characterized by
(a) Color blindness
(b) Muscular atrophy
(c) Hair in ear pinna
(d) Baldness
199. Hemophilia is a condition which is inherited as
(a) Sex linked
(b) Sex influenced
(c) Sex limited
(d) None
200. The method of sex determination in birds is
(a) XO
(b) XY
(c) ZW
(d) XA
201. Linkage between either dominant or recessive alleles is called
(a) Coupling linkage
(b) Repulsion linkage
(c) Complete linkage
(d) Incomplete linkage
202. The diploid chromosome number in chicken is
(a) 38
(b) 74
(c) 78
(d) 60

203. Wry neck is mostly seen in
- a) Bovine
 - b) Caprine
 - c) Equine
 - d) Canine
204. Recommended fetotomy procedure in perosomus elumbis is
- a) Amputation of fetal limbs
 - b) Bisection of pelvis
 - c) Transverse division of fetal trunk
 - d) Amputation of head and neck
205. Generally stallion attains the puberty at the age of
- a) 4 to 7 months
 - b) 9 to 12 months
 - c) 12 to 24 months
 - d) 36 to 42 months
206. Sertoli cell tumor of the testes in dog secretes
- a) Testosterone
 - b) Estrogen
 - c) Androgen
 - d) Prolactin
207. Dystrophia adiposogenitalis is observed in the
- a) Dog
 - b) Stallion
 - c) Boar
 - d) Ram
208. Large number of primary sperm abnormalities are indicative of
- a) Ectopic testes
 - b) Testicular degeneration
 - c) Testicular neoplasm
 - d) Testicular fibrosis
209. When arable farming is mixed with livestock raising it is known as
- (A) Mixed farming
 - (B) Sole farming
 - (C) Co-operative farming
 - (D) Slate farming
210. Villagesurpanch is elected through
- (A) Secret ballot paper
 - (B) Member
 - (C) Co-operative

- (D) Nominated
211. AMUL system of milk marketing follows the principle of
- (A) Co-operative
 - (B) Mutual work
 - (C) Subsidy purpose
 - (D) Service
212. GCMMF has made turnover of Rs.
- (A) 5500 crore
 - (B) 6700 crore
 - (C) 5000 crore
 - (D) 8000 crore
213. Who is the chairman of GCMMF?
- (A) Amrita patel
 - (B) Vipul chaudhary
 - (C) Parthi Bhatol
 - (D) Dr. Kurian
214. Rural dairy extension programmed was the part and parcel of
- (A) ICDP
 - (B) DPAP
 - (C) IRDP
 - (D) JRY
215. Electronic identity is made in animal by
- a. Electron microscope
 - b. Computer
 - c. Radium number
 - d. Electronic chip
216. This measurement of body has close relation with body weight in animal
- a. Body length
 - b. Paunch girth
 - c. Height at wither
 - d. Heart girth
217. Blanketing is the practice utilize for
- a. Brighter look to body coat
 - b. To keep hide in good condition
 - c. Refard hair growth
 - d. All of above
218. Wedge shaped body denotes
- a. Beef character
 - b. Draught character
 - c. Dairy character
 - d. None of above

219. Colostrum feeding in the calf should be done at
- Within two hours after calving
 - Within three days of calving
 - Within twelve hours after calving
 - None of above
220. Age at first kidding in mehsani goat breed is
- 18 to 24 months
 - 24 to 30 months
 - 12 to 18 months
 - 30 to 36 months
221. Which state rank first in duck population
- West Bangal
 - Assam
 - Orissa
 - Karala
222. Project Directorate on Poultry (PDP) is located at
- Izzatnagar
 - Banglore
 - Hyderabad
 - Anand
223. Central Avian Research Institute (CARI) is located at
- Izzatnagar
 - Banglore
 - Hyderabad
 - Anand
224. Normally which ovary & oviduct is functional in chicken
- Right ovary and Right oviduct
 - Left ovary and Left oviduct
 - Right ovary and Left oviduct
 - Left ovary and right oviduct
225. Complete Parts of Oviduct in chronological order are
- Infundibulum-Isthumus-Magnum-Uterus-Vagina
 - Infundibulum-Magnum-Isthumus-Uterus-Vagina
 - Infundibulum-Magnum-Isthumus-Uterus
 - Infundibulum-Magnum-Isthumus-Vagina-Uterus
226. Fertilization is take place in which part of reproductive tract
- Ovary
 - Isthumus
 - Infundibulum
 - Uterus

227. . Chloramphenicol residues and milk products causes in consumers.....
- a) Arthritis
 - b) Aplastic anemia
 - c) Blindness
 - d) Anorexia
228. Well established protozoan disease transmitted through milk.....
- a) Cysticercosis
 - b) Toxoplasmosis
 - c) Giardiasis
 - d) *Salmonellosis*
229. Insecticides of group that constitute the principal health hazard to consumers of milk and milk products.....
- a) Organic sulphates
 - b) Organic phosphates
 - c) Chlorinated hydrocarbons
 - d) Activated chlorinate
230. The following acid producing bacteria convert lactose into lactic acid in milk.....
- a) *Streptococcus cremoris*
 - b) *Staphylococcus aureus*
 - c) *Bacillus cereus*
 - d) *Clostridium botulinm*
231. The most common bacterium causing joint pain.....
- a) *Brucella*
 - b) *Shigella*
 - c) *Salmonella*
 - d) *Clostridia*
232. Galacto toxins in milk are produced by.....
- a) *Streptococci spp.*
 - b) Contact of milk with steel vessels
 - c) Contact of milk with copper vessel
 - d) *Serratia spp.*
233. . Praziquental and tartar emetic is drug of choice for :
- (a) *Schistosoma sp.*
 - (b) *Eurytrema sp.*
 - (c) *Notocotylus sp.*
 - (d) All of the above
234. In schistosoma which of the following statement is true :
- (a) Male is longer than female
 - (b) Female is longer than male

- (c) Female & Male are of same size
(d) None of the above
235. Flame cell is excretory system of which of the following :
(a) Trematodes
(b) Cestodes
(c) Nematodes
(d) Acanthocephala
236. Normally eggs are operculated in which of the following :
(a) Round worm
(b) Trematode
(c) Both of the above
(d) None of the above
237. Out of which of the following are unsegmented :
(a) Round worm
(b) Trematode
(c) Both of the above
(d) None of the above
238. 'Gape worm' of poultry is :
(a) *Ascaridia galli*
(b) *Heterakis gallinarum*
(c) *Syngamus trachea*
(d) *Subulura brumpti*
239. Poll evil in Horse is caused by-
(A) *Clostridium tetani*
(B) *Actinomyces bovis*
(C) *Brucella abortus*
(D) Both (B) and (C).
240. Nutritional roup in Poultry is caused due to deficiency of-
(A) Vitamin B
(B) Vitamin C
(C) Vitamin E
(D) Vitamin A.
241. Epithelial Pearls are seen in-
(A) Sebaceous cell Adenoma
(B) Squamous cell carcinoma
(C) Melanoma
(D) Venereal granuloma.
242. Blue Tongue in sheep is caused by-
(A) Herpes virus
(B) Birna virus
(C) Picorna virus

- (D) Orbi virus.
243. Most common Serotype of FMD virus in India is-
- (A) A
 - (B) C
 - (C) Asia-1
 - (D) O.
244. In which disease post mortem of carcass is prohibited?
- (A) Haemorrhagic septicemia
 - (B) Rinder pest
 - (C) Anthrax
 - (D) Brucellosis.
245. The water used for moistening of POP cast should range between
- a. 30-35 °C
 - b. 10-20 °C
 - c. 20-25 °C
 - d. 40-45 °C
246. The best procedure for complete diaphyseal fracture of tibia in bullock is
- a. POP
 - b. Hanging pin cast
 - c. Walking cast
 - d. Thomas splint
247. If fracture is stabilized with rigid fixation the clinical union occur at
- a. 15-20 days
 - b. 20-30 days
 - c. 40-50 days
 - d. 80-100 days
248. Typical radiographic sign of osteo-arthritis is
- a. Increased joint space
 - b. Decreased joint space
 - c. Irregular joint space
 - d. Irregular joint space with new bony growth
249. The radiographic signs of non union is
- a. Radiolucency between fragments
 - b. Increased radio density of either fragments
 - c. Placement of fragments side by side

- d. Rounding of both fragments
250. The radiographic diagnosis of intestinal obstruction is done by using
- Barium sulphate
 - Conray -420
 - Urographin
 - Ipamidol
251. . Holocrine secretion:
- Occurs in sebaceous glands
 - Occurs in endocrine glands
 - Involves little or no loss of cytoplasm
 - All of the above
252. The site of production of cholecystokinin and secretin is the:
- Stomach
 - Pancreas
 - Small Intestine
 - Large Intestine
253. Alkaline mucous glands are found in the submucosa of the:
- Ileum
 - Jejunum
 - Duodenum
 - Cardiac region of the stomach
254. The gallbladder:
- Produces bile
 - Is attached to the pancreas
 - Stores and concentrates bile
 - Produces cholecystokinin
255. Which of the following sphincters is under voluntary control?
- Pyloric
 - Hepatopancreatic
 - Internal anal
 - External anal
256. At the junction between the esophagus and the stomach, the epithelial lining changes abruptly from _____ to _____.
- Nonkeratinized stratified squamous; simple columnar
 - Simple columnar; nonkeratinized stratified squamous
 - Nonkeratinized simple squamous; stratified columnar
 - Stratified columnar; nonkeratinized simple squamous
257. Which one of the following has maximum natriuretic effect?
- Spironolactone
 - Furosemide
 - Mannitol

- d) Acetazolamide
258. The following is not an indication of PGF2 alpha
- a) Synchronization of oestrus
 - b) Cystic ovaries
 - c) Persistent corpus luteum
 - d) Induction of abortion
259. In which of the following animals emetics are not used?
- a) Rats
 - b) Cattle
 - c) Horse
 - d) All of the above
260. Which of the following drugs produces only laxative effect even with increase in dose?
- a) Magnesium sulphate
 - b) Anthraquinone
 - c) Castor oil
 - d) Liquid paraffin
261. One of the following is not a salt of bunamidine used against cestodial infestation in animals.
- a) Bunamidine P-toluene sulphonate
 - b) Bunamidine hydrochloride
 - c) Bunamide sodium
 - d) Bunamidine hydroxynaphthoate
262. Source of bacitracin is
- a) *Streptomyces rimosus*
 - b) *Bacillus subtilis*
 - c) *Streptomyces aureofaciens*
 - d) *Bacillus polymyxa*
263. The most effective chemical disinfectant to kill FMD virus is:
- a. 2 % formalin
 - b. 70 % alcohol
 - c. 2 % Sodium hydroxide
 - d. 0.5 % phenol
264. Hendra and Nipah viruses belong to the family:
- a. Paramyxoviridae
 - b. Orthomyxoviridae
 - c. Picornaviridae
 - d. Parvoviridae
265. Clinical manifestation of canine parvovirus infection is/are:
- a. Myocarditis in pups
 - b. Haemorrhagic diarrhea

- c. Leukopenia
 - d. All of above
266. Bluetongue virus has:
- a. 20 serotypes
 - b. 24 serotypes
 - c. 7 serotypes
 - d. 9 serotypes
267. Find the wrong match:
- a. Borrel bodies- Fowl pox
 - b. Guarneri bodies- small pox
 - c. Negribodies- Rabies
 - d. All are correct
268. Bovine diarrhea virus belongs to the family
- a. Flaviviridae
 - b. Reoviridae
 - c. Togaviridae
 - d. Rhabdoviridae
269. Viral triad include
- a. Rinder pest virus, Measles virus and Canine distemper virus
 - b. Rinder pest virus, Mumps virus, Measles virus
 - c. Measles, mumps and Rubella viruses
 - d. Rinder pest virus, Reo virus and Rhabdo virus
270. The concentration of single stranded RNA molecule which gives absorbance value of 1.0 at 260 nm is:
- a. 33 $\mu\text{g/ml}$
 - b. 40 $\mu\text{g/ml}$
 - c. 50 $\mu\text{g/ml}$
 - d. Cannot be determined on the basis of absorbance value
271. The 260/280 nm ratio of pure DNA sample should be:
- a. Less than 1.8
 - b. 1.8
 - c. More than 1.8
 - d. 3.0
272. The 260/280 nm ratio less than 1.8 for a DNA sample reflects:
- a. Protein contamination
 - b. RNA contamination
 - c. Both
 - d. None
273. Oligo dT attached to resin is used for the column based isolation of
- a. Prokaryotic DNA

- b. Eukaryotic DNA
 - c. Prokaryotic m-RNA
 - d. Eukaryotic m-RNA
274. The chemical that can be used for precipitation of DNA is:
- a. Ethyl alcohol
 - b. Isoamyl alcohol
 - c. Phenol
 - d. None
275. The chemical method of DNA sequencing is:
- a. Maxam Gilbert method
 - b. Sanger method
 - c. Both
 - d. None
276. Which of the following is a oval articular projection?
- a. Condyle
 - b. Trochlea
 - c. Head
 - d. Facet
277. Which of the following is a ventricle of hind brain?
- a. Third ventricle
 - b. Fourth ventricle
 - c. Lateral ventricle
 - d. None of above
278. Which of the following is a spherical shallow articular depression?
- a. Glenoid cavity
 - b. Cotyloid cavity
 - c. Articular groove
 - d. Semilunar notch
279. The cell membranes is mainly composed of
- a. a single layer of protein molecules
 - b. a protein bilayer
 - c. a phospholipids bilayer
 - d. a polysaccharide bilayer
280. Which organelles is the site for ATP production?
- a. nucleoli
 - b. mitochondria
 - c. gogli complex
 - d. ribosomes
281. During which stage mitosis do the chromosomes line up in the middle of cell
- a. prophase

- b. anaphase
 - c. metaphase
 - d. telophase
282. Which of the following is not a connective tissue?
- a. bone
 - b. cartilage
 - c. muscle
 - d. blood
283. The point of crossover is known as
- (a) Tetrad
 - (b) Chiasma
 - (c) Synapsis
 - (d) Recombination
284. The maximum probability of making Type-I error is known as
- (a) Confidence interval
 - (b) Test of significance
 - (c) Level of significance
 - (d) Rejection region
285. Which of the following traits will show higher rate of genetic improvement under mass selection programme
- a) Service period in cattle
 - b) Body weight at 8 week in poultry
 - c) Litter size in pig
 - d) Twinning rate in goat
286. Diallele crossing is usually practiced in
- (a) Cattle
 - (b) Sheep
 - (c) Race horse
 - (d) Poultry
287. Marker assisted selection is more effective for traits of
- (a) High heritability
 - (b) Low heritability
 - (c) Medium heritability
 - (d) Both b) and c)
288. 'Operation Flood' scheme was operated by
- (a) NDDB, Anand
 - (b) NDRI, Karnal
 - (c) IVRI, Izatnagar
 - (d) NDRI, Bangalore

289. Inbreeding would more severely affect
- (a) Pre weaning gain in sheep
 - (b) Litter size in pig
 - (c) Fat % in cow
 - (d) Mature body weight in doe
290. Smooth muscle around spermatic cord to help in thermoregulation of testes is
- a) Tunica dartos
 - b) Cremaster muscle
 - c) Pampiniform plexus
 - d) Gubernaculum
291. Mitochondria concentrates close to the axoneme and forms the
- a) End piece of the tail
 - b) Neck of the sperm
 - c) Mid piece of the tail
 - d) Annulus
292. Unnatural tactile stimulation and ejaculation is known as
- a) Onanism
 - b) Coolidge effect
 - c) Pederasty
 - d) Balling up
293. A complete series of cellular associations along a seminiferous tubule
- a) Spermatogenic wave
 - b) Spermiostasis
 - c) Spermiogenesis
 - d) Cycle of seminiferous epithelium
294. Terminology used for the high per cent of abnormal sperms
- a) Teratozoospermia
 - b) Aspermia
 - c) Asthenozoospermia
 - d) Necrozoospermia
295. Inability to withdraw the penis back in to the prepuce
- a) Paraphimosis
 - b) Posthitis
 - c) Phimosis
 - d) Preputial prolapse
296. Effect of novelty of stimulus females reduces refractory period in males is known as
- a) Balling up effect
 - b) Coolidge effect
 - c) Bruce effect
 - d) Pederasty
297. Sabarmati Ashram gosala founded in
- (A) 1815

- (B) 1925
- (C) 1915
- (D) 1945

297. Central council of Gosamverdhan was started

- (A) 1952
- (B) 1955
- (C) 1958
- (D) 1960

298. State farming is managed by

- (A) NGO
- (B) Govt.
- (C) People
- (D) Middlemen

299. NDRI is located at

- (A) Jaipur
- (B) Kernel
- (C) Jabalpur
- (D) Cochin

300. CSWRI is located at

- (A) Avikanagar
- (B) Izzatnagar
- (C) Modinagar
- (D) Mathura

301. In mixed farming income from main enterprise is

- (A) 49%
- (B) 50%
- (C) 60%
- (D) 70%

302. NDDB was established in the year

- (A) 1965
- (B) 1955
- (C) 1975
- (D) 1985

303. Crone is the synonym of the

- a. Young sow
- b. Broken mouth sow
- c. Old aged ewe
- d. Ewe with loss of teat

304. The average life span of horse is (Years)
- 2.5 to 18 Years
 - 3 to 16 Years
 - 3 to 15 Years
 - 3 to 12 Years
305. Sunandini is the cross bred developed from
- Local cattle Kerala
 - Local cattle Karnataka
 - Sahiwal
 - Tharparkar
306. Simmental is the breed of cow belong to breed
- Exotic dairy cow
 - Exotic beef cow
 - Indigenous dairy cow
 - Indigenous beef cow
307. This breed not belong to mysore type cattle group
- Burgur
 - Alambadi
 - Khillari
 - Nimari
308. Buffalo in philipines is known as
- Kerban
 - Shin nive
 - Arana
 - Carabao
309. This buffalo breed is come under endangered categories
- Bhadawari
 - Jafarabadi
 - Banni
 - Jerangi
310. The inner surface of which section of oviduct is lined with goblet cell that secrete albumen
- Isthmus
 - Magnum
 - Uterus
 - Infundibulum
311. Doubled yolked egg is more common in
- Older birds
 - Pullet
 - Both a and b
 - None of above

- 312 Hens usually moult in the which following order
- Head-Neck-Body-Wing-Tail
 - Head- Neck-Wing-Body-Tail
 - Tail-Wing-Neck-Head-Body
 - Tail-Wing-Body-Neck-Head
- 313 The order of disappearance of pigment (bleaching) from body in
- Vent-Eye ring-Ear lobes-Beak-Shanks
 - Vent- Beak- Eye ring-Ear lobes-Shanks
 - Shanks-Beak-Ear lobes-Eye ring-Vent
 - Vent-Shanks-Beak-Ear lobes-Eye ring
- 314 The pigment first leaves those structures having
- Poor blood circulation
 - Best blood circulation
 - No correlation with blood circulation
 - Both a and b
- 315 The uropygial gland is located on dorsal area of
- Tail
 - Back
 - Head
 - Neck
- 316 Most chicken breeds have how many number of toes on each foot
- Four
 - Three
 - Five
 - Two
317. Immediate test to judge the quality of milk.....
- Electro impedance method
 - Alcohol test
 - Organoleptic tests
 - Sediment test
318. *Psychrophils* of significance in milk hygiene is/are.....
- Pseudomonas*
 - Listeria monocytogenes*
 - Both a and b
 - None of the above
319. Cold sterilization means.....
- Sterilization at low temperature
 - Sterilization by radiations
 - Flash pasteurization

- d) None of the above
320. Anthrax is also called as.....
- a) Splenic fever
 - b) Desert fever
 - c) Undulant fever
 - d) All of the above
321. *Trichinella* cyst can be destroyed by.....
- a) Salting
 - b) Smoking
 - c) Both of the above
 - d) None of the above
322. Scrapie is a.....
- a) Progressive fatal disease of CNS
 - b) Disease of young animals
 - c) The causal agent is antigenic
 - d) All of the above
323. Knott's technique is a concentration method for detection of following parasite in blood
- (a) *Trichomonas* spp.
 - (b) *Trypanosoma evansi*
 - (c) *Microfilariae*
 - (d) All above
324. Which parasite cause destruction of host tissue by breakage of lymph vessels :
- (a) Chiggers
 - (b) Filarids
 - (c) *Strongylus*
 - (d) Ascarids
325. *Oxyuris equi* in horse found in which of the following :
- (a) Small intestine
 - (b) Caecum, colon
 - (c) Oesophagus
 - (d) Caecum, colon, rectum
326. Presence of eggs of the *Oxyuris equi* can be diagnosed by which of the following :
- (a) Faeces
 - (b) Perianal swab
 - (c) Both of the above
 - (d) None of the above
327. Alimentary canal present in which of the following :
- (a) Trematodes
 - (b) Cestodes

- (c) Nematodes
- (d) Acanthocephala

328. Which of the following is the kidney worm of dog :
- (a) *Trichuris sp.*
 - (b) *Capillaria sp.*
 - (c) *Seteria digitata*
 - (d) *Dioctophyma renale*
329. In which egg are lemon shaped and with plug on both side of egg :
- (a) *Trichuris sp.*
 - (b) *Capillaria sp.*
 - (c) *Seteria digitata*
 - (d) *Dioctophyma renale*
330. Mad itch is mostly a disease of-
- (A) Caprine
 - (B) Bovine
 - (C) Swine
 - (D) Ovine
331. Tigroid Heart is seen in cattle affected with-
- (A) Bovine malignant catarrhal
 - (B) Botulism
 - (C) Bovine viral diarrhea
 - (D) Foot and mouth disease.
332. Wooden Tongue in cattle is seen in-
- (A) Actinomycosis
 - (B) Botriomycosis
 - (C) Haemorrhagic Septicemia
 - (D) Actinobacillosis.
333. Mode of transmission of IBR virus is-
- (A) Venereal
 - (B) Inhalation
 - (C) Both
 - (D) None of the above.
334. Maedi is primarily a disease of-
- (A) Sheep affecting respiratory system
 - (B) Cattle affecting reproductive system
 - (C) Sheep affecting nervous system
 - (D) Cattle affecting nervous system.
335. Equine Plague is also called as-
- (A) Equine viral arteritis

- (B) Glanders
 - (C) Strangles
 - (D) African Horse sickness.
336. Sore mouth in cattle is seen in-
- (A) Blue tongue
 - (B) Bovine malignant catarrh
 - (C) Rinder pest
 - (D) Vesicular Stomatitis
337. Protective wears for radiography are made up of
- a. Lead
 - b. Iron
 - c. Zinc
 - d. Tungste
338. The best treatment of long bone fracture is
- a. POP bandages
 - b. Intramadulary pinning
 - c. Intramadulary nailing
 - d. Bone plating
339. Suturing of lacerated nostril is performed under nerve block
- a. Infra-orbital
 - b. Retro bulbar
 - c. Mandibular
 - d. Supra-orbital
340. Extirpation of incisor tooth in cattle is performed under nerve block
- a. Infra-orbital
 - b. Mandibular
 - c. Retro bulbar
 - d. Cornual
341. The best anaesthetic technique for laparotomy in cattle is
- a. Local infiltration
 - b. Paravertebral
 - c. Field block
 - d. Anterior caudal epidural
342. Docking in adult dog is performed under
- a. Epidural
 - b. Local infiltration
 - c. Ring block
 - d. General anaesthesia
343. General anesthesia of equine is performed now a days by using

- a. Chloral hydrate
 - b. Xylazine
 - c. Xylazine + Ketamine
 - d. Chlormag
344. Histologically, the stomach wall is unique because it contains:
- a. No lamina propria
 - b. 1 extra layer in its muscularis mucosae
 - c. 1 extra layer in its muscularis externa
 - d. An adventitia in addition to a double-membraned serosa
345. The gastric gland cell whose absence could lead to pernicious anemia is the:
- a. Chief cell
 - b. Goblet cell
 - c. Mucous neck cell
 - d. Parietal cell
346. The layer of the digestive tube wall which contains blood vessels, lymphatic nodules, and a rich supply of elastic fibers is the:
- a. Mucosa
 - b. Submucosa
 - c. Muscularis Externa
 - d. Serosa
347. Mechanical digestion occurs in the:
- a. Stomach
 - b. Cecum
 - c. Pharynx
 - d. Esophagus
348. The entry of bile into the duodenum is controlled by the:
- a. Liver sinusoids
 - b. Common pancreatic duct
 - c. Pyloric sphincter
 - d. None of the above
349. A major function of the large intestine is to:
- a. Secrete digestive enzymes
 - b. Remove waste materials
 - c. Regulate the release of bile
 - d. Secrete water in order to regulate blood volume
350. Which of the following is not produced by an enteroendocrine cell?
- a. Pepsin
 - b. Cholecystokinin
 - c. Gastrin
 - d. Secretin

351. An anti-estrogen used in advanced breast cancer is
a) Tamoxifen
b) Precarbazine
c) Mitotane
d) Cisplatin
352. A semi synthetic derivative of diterpene is
a) Clindamycin
b) Ticarcillin
c) Tiamulin
d) Lincomycin
353. Drug used as anthelmintic by producing its effect by GABA mediated hyper polarization is
a) Albendazole
b) Mebendazole
c) Fenbendazole
d) Ivermectin
354. Kanamycin derivate is
a) Amikacin
b) Spectinomycin
c) Atramycin
d) Spiramycin
355. Polymixin E is also called as
a) Novobiocin
b) Bacitracin
c) Colistin
d) Kanamycin.
356. An agent used against anaerobic bacteria as well as protozoa is
a) Mebendazole
b) Metronidazole
c) Methicillin
d) Marbofloxacin
357. Neomycin B is also called as
a) Kanamycin
b) Amikacin
c) Tobramycin
d) Gentamicin
358. Flaviviridae is
a. dsDNA
b. ds RNA
c. ss DNA

- d. ssRNA
359. Following are the morbilli viruses except
- a. Mumps virus
 - b. Measles virus
 - c. PPRV
 - d. Rinderpest virus
360. Following is/are the character(s) of *Streptococcus*
- a. Gram positive cocci
 - b. Catalase –Ve
 - c. Arranged in chain
 - d. All of these
361. Cold enrichment is required for the isolation of
- a. *Listeria monocytogenes*
 - b. *Erysipelothrix*
 - c. *Staph. aureus*
 - d. *Clostridium tetani*
362. Bacteria responsible for food poisoning
- a. *Staph. aureus*
 - b. *Clostridium botulinum*
 - c. *Bacillus cereus*
 - d. All of these
363. Dysgonic species of Mycobacterium is
- a. *M. bovis*
 - b. *M. avium*
 - c. *M. tuberculosis*
 - d. *M. phlei*
364. Satellite growth on blood agar plate in presence of *Staph. aureus* is characteristic of
- a. *Pasteurella*
 - b. *Haemophilus*
 - c. *Actinobacillus*
 - d. *Mycoplasma*
365. The di-deoxy chain termination method of DNA sequencing is:
- a. Maxam gilbert method
 - b. Sanger's method
 - c. Pyrosequencing method
 - d. Nanopore sequencing method
366. The pH of Tris saturated phenol used for the purpose of DNA isolation should be:
- a. 5.0
 - b. 6.0

- c. 7.0
 - d. 8.0
367. DNA molecule as big as 10 MB can be separated by:
- a. Polyacrylamide gel electrophoresis
 - b. Agrose gel electrophoresis
 - c. Pulse Field electrophoresis
 - d. None
368. The blotting technique used for the detection of DNA molecule is called:
- a. Southern blot
 - b. Northern blot
 - c. Western blot
 - d. Eastern blot
369. The blotting technique used for the detection of RNA molecule is called:
- a. Southern blot
 - b. Northern blot
 - c. Western blot
 - d. Eastern blot
370. The blotting technique used for the detection of protein is called:
- a. Southern blot
 - b. Northern blot
 - c. Western blot
 - d. Eastern blot
371. In southern blot, the labeled nucleic acid used to detect complementary sequence is called:
- a. Template
 - b. Primer
 - c. Probe
 - d. None of the above
372. Which type of tissue covers the external and internal surfaces of the body?
- a. connective
 - b. skin
 - c. areolar
 - d. epithelial
373. What is found within the peritoneal cavity?
- a. pleural fluid
 - b. the pericardium
 - c. peritoneal fluid
 - d. liquor pericardi
374. Which of the following is a splanchnic bone?
- a. sternum
 - b. patella

- c. os cardis
 - d. calcaneus
375. Which of the following joints is an example of an amphiarthrosis?
- a. the temporomandibular joint
 - b. Sutures of the skull
 - c. between the bodies of the vertebrae
 - d. ischiopubic symphysis
376. What is the unit of contraction in a muscle?
- a. motor unit
 - b. sarcomere
 - c. origin
 - d. insertion
377. Which of the following muscle is not a component of the Achilles tendon?
- a. semimembranosus
 - b. biceps femoris
 - c. semitendinosus
 - d. superficial digital flexor
378. Which of the following structures is not part of the peripheral nervous system?
- a. cranial nerve V
 - b. spinal nerves supplying the intercostal muscles
 - c. hypothalamus
 - d. a neuromuscular junction
379. The pons, medulla and cerebellum together form the
- a. forebrain
 - b. midbrain
 - c. hindbrain
 - d. cerebral hemispheres
380. Testosterone is secreted by which cell?
- a. islets cells
 - b. sertoli cells
 - c. Brunner's glands
 - d. cells of Leydig
381. In the foetal circulation, the shunt that connects the pulmonary artery and aorta is called as
- a. ductus venosus
 - b. foremen ovale
 - c. ductus arteriosus
 - d. falciform ligament
382. Genetic drift in small population is an example of

- (a) Systematic process
 - (b) Dispersive process
 - (c) Both
 - (d) None
383. The maximum frequency of recombinant progeny is
- (a) 50 %
 - (b) 25 %
 - (c) 42 %
 - (d) 63 %
384. The diploid number of chromosomes are equal in
- (a) Sheep and goat
 - (b) Cattle and goat
 - (c) Buffalo and sheep
 - (d) Man and rhesus monkey
385. A negative correlation coefficient between the two variables X and Y indicates that
- (a) Large values of X are associated with small values of Y
 - (b) Large values of X are associated with large values of Y
 - (c) Small values of X are associated with small values of Y
 - (d) None of the above answers are correct
386. Which of the following chemical is used as a mutagen?
- (a) Mustard gas
 - (b) Colchicine
 - (c) FCS
 - (d) All of these
387. Which of the following is sex linked trait in poultry?
- (a) Colour pattern of plumage
 - (b) Barring pattern of plumage
 - (c) Comb pattern
 - (d) Albumen height
388. The difference between mean phenotypic values of the progeny of selected parents and whole of the population before selection is known as
- (a) Intensity of selection
 - (b) Standardized selection
 - (c) Selection differential
 - (d) None of the above
389. Scent glands, source of pheromones located dorsally and medially at the horns of
- a) Ram
 - b) Buck
 - c) Bull
 - d) Stallion

390. Sertoli cell produces the protein hormone which suppresses the production of FSH
a) Androgen binding protein
b) Inhibin
c) Luteinizing hormone
d) Estrogen
391. Spreading of adherent acrosomal granule over the surface of spermatid nucleus
a) Golgi phase
b) Cap phase
c) Acrosomal phase
d) Maturation phase
392. Infertility in a bull due to Inability to fertilize
a) Penile deviation
b) Penile frenulum
c) Testicular Hypoplasia
d) Penile Neoplasm
393. The penile protrusion is followed by
a) Erection
b) Mounting
c) Intromission
d) Pelvic thrust
394. The required number of progressive motile sperms at A.I. in cattle is
a) 50 millions
b) 30 millions
c) 10 millions
d) 3 millions
395. Presence of musculo membranous attachment on ventral aspect of glans penis to the preputial mucosa
a) Balanoposthitis
b) corkscrew penis
c) Penile tumor
d) Penile frenulum
396. Accentrically placed thickening of the acrosome is known as
a) Diadem defect
b) Acrosomal cap
c) Sterilizing tail stump
d) Knobbed spermatozoa
397. Flehman's reaction is not observed in
a) Bull
b) Boar
c) Stallion
d) Ram

398. Bicornual transverse presentation is more common in
a) Cows
b) Buffalo
c) Mare
d) Ewes
399. The first veterinary college was started in the year 1886 at
(A) Kolkata
(B) Mumbai
(C) Madras
(D) Ludhiyana
400. The first dairy co-operative was started in the year 1913 at
(A) Anand
(B) Allahabad
(C) Jaipur
(D) Pune
401. Toxic jaundis is also known as
(A).Post haepatic jaundis
(B).Haepatic jaundis
(C).Pre haepatjc jaundis
(D). Obstructive jaundis
402. Siderosis means
(A).Deposition of calcium in lung
(B). Deposition of iron in lung
(C). Deposition of silicon in lung
(D). Deposition of silver particle in lung
403. Van den Bergh test for obstructive jaundis
(A). Direct
(B).Indirect
(C).Biphasic
(D). Both (B) & (C)
404. In abscess which type of necrosis is seen?
(A). Coagulative necrosis
(B).Liquifective necrosis
(C).Caseative necrosis
(D).Fat necrosis
- 405..First change after death is
(A). Alger mortis
(B).Rigor mortis
(C).Formation of bloat
(D).Both (B) & (C)
406. Inflammation of crop
(A). Blephritis
(B).Ingluvitis

- (C). Typhlitis
(D). Gonitis
407. Cart wheel appearance of nucleus found in
(A). Plasma cell
(B). Basophils
(C). Eosinophils
(D). Monocyte
408. Extreme elevation of leucocyte in peripheral blood is known as
(A). Shift to left
(B). Leukamoid reaction
(C). Right shift
(D). Both (A) & (C)
409. Blood in vomitus
(A). Haematemesis
(B). Haemoptysis
(C). Epistaxis
(D). Melena
410. Bleeding from the oviduct is designated as:
a) Epitaxis
b) Hemosalpinx
c) Hematocele
d) Hematemesis
411. Condition which is hereditary and sex linked in which clotting is delayed:
a) Apoplexy
b) Hemophilia
c) Brown induration
d) Epistaxis
412. On the basis of rainfall, temperature, and soil the country can be divided into ---
Animal husbandry region
(A) 5
(B) 6
(C) 7
(D) 8
413. Small scale farming also known as
(A) Family farming
(B) Sole farming
(C) Individual farming
(D) Co-operative farming
414. Secretary of Panchayat samity
(A) DDO
(B) TDO
(C) Collector

- (D) Mamlatdar
415. National Institute of Rural Development is located at
(A) Hyderabad
(B) Chennai
(C) Bangalore
(D) Jaipur
416. Specialized farm income from main enterprise is
(A) <50%
(B) >50%
(C) 50%
(D) 60%
417. The first Veterinary University was established in the year 1986 at
(A) Hyderabad
(B) Trichur
(C) Bangalore
(D) Chennai
418. Contribution of sight in learning is
(A) 80%
(B) 87%
(C) 90%
(D) 95%
419. Two forms of social stratification
(A) Cast class
(B) Color race
(C) Custom value
(D) Norm belief
420. Tegur in Karnataka is the breeding farm for
a. Gir
b. Tharparkar
c. Khillar
d. None of these
421. Malas are the professional breeder for
a. Sahiwal
b. Red sindhi
c. Rathi
d. Ongole
422. This breed produce the “Premium market milk” due to yellow color of milk

- a. Jersey
 - b. Brown swiss
 - c. Guernsey
 - d. Ayreshire
423. Ration calculation for individual animal does not require this thing
- a. Weight of animal
 - b. Lactation yield
 - c. Pregnancy
 - d. Parity of animal
424. Maize fodder (green) is comes under the grade in quality
- a. Excellent
 - b. Good
 - c. Medium
 - d. Poor
425. This practice is not comes under milking method
- a. Intermittent milking
 - b. Knuckling
 - c. Full hand
 - d. Stripping
426. This practice does not required for sexual stimulation in bull
- a. False mount
 - b. Changing teaser
 - c. Changing semen collector
 - d. Restraining mount
427. The score points for cow graded “very good” are
- a. 80 to 85
 - b. 85 to 90
 - c. 90 to 95
 - d. 70 to 80
428. The key village scheme was launched in India during the year
- a. First five year plan
 - b. Second five year plan
 - c. Fifth five year plan
 - d. Sixth five year plan
429. Operation flood project received donation of butter oil and scheme milk from
- a. European union
 - b. U. S. A.
 - c. European dairies
 - d. European economic community
- 430 In poultry true stomach is
- a. Gizzard

- b. Proventriculus
 - c. Crop
 - d. Abomasums
- 431 The end product of protein metabolism in poultry is mainly
- a. Urea
 - b. Uric acid
 - c. Ammonia
 - d. Urates
- 432 Which type of egg producer molt late in the season and rapidly
- a. Good egg producer
 - b. Poor egg producer
 - c. Average egg producer
 - d. None of above
- 433 Which type of egg producer molt early in the season and slowly
- a. Good egg producer
 - b. Poor egg producer
 - c. Average egg producer
 - d. None of above
- 434 Forced molting is done by
- a. Withdrawal of Feed and Water
 - b. Withdrawal of Light
 - c. Increase level of dietary Zinc
 - d. All of above
- 435 Cold room temperature for hatching egg storage is
- a. 48-52 °F
 - b. 58-62 °F
 - c. 68-72 °F
 - d. 78-82 °F
- 436 Setter temperature for hatching egg is
- a. 92.5-93 °F
 - b. 99.5-100 °F
 - c. 102.5-103 °F
 - d. 97.5-98 °F
- 437 Hatcher temperature for hatching egg is
- a. 94-95 °F
 - b. 99-100 °F
 - c. 98-99 °F
 - d. 96-97 °F
- 438 Physiological zero (0) temperature bellow which embryo growth is arrested in eggs

- a. 75 °F
 - b. 65 °F
 - c. 85 °F
 - d. 95 °F
439. Position of hatching egg in setter is
- a. Narrow end up
 - b. Broad end up
 - c. Horizontal
 - d. Vertical
440. Ematiation in meat is caused by.....
- a) Inadequate intake of nutrients
 - b) Pathological conditions
 - c) Advanced age of animal
 - d) Over eating
441. *Clostridium botulinum* secretes toxin under.....
- a) Aseptic condition
 - b) Aerobic condition
 - c) Anaerobic condition
 - d) Aerobic as well as anaerobic condition
442. In sheep the normal arterial blood pressure is.....
- a) 100-110 mm of mercury
 - b) 120-145 mm of mercury
 - c) 146-165 mm of mercury
 - d) 166-175 mm of mercury
443. Unconventional meat.....
- a) Beef
 - b) Mutton
 - c) Crocodile meat
444. Booling test on meat detect.....
- a) pH
 - b) Colour
 - c) Odour
445. Electrical stunning is widely used in.....
- a) Cattle and poultry
 - b) Pigs and poultry
 - c) Buffaloes and poultry
446. Study of organism in relation to their environment is Known as...
- a) Ecology
 - b) Ecosystem

- c) Epornitic
- d) Oncology
- 447. Which disease is Ectoparasitic zoonosis
 - a) Scabies
 - b) Taeniasis
 - c) Both a) & b)
 - d) None of above
- 448. How to control reservoir of infection
 - a) Treatment
 - b) Health education
 - c) Both a) & b)
 - d) None of above
- 449. Rabies also known as....
 - a) Lyssa
 - b) Rage
 - c) Tallwut
 - d) All of above
- 450. Spinose ear tick mainly pathogenic in which of the following stage :
 - (a) Larval stage
 - (b) Nymphal stage
 - (c) Adult stage
 - (d) All of the above
- 451. The chief cause of 'strike in the sheep' is which of the following :
 - (a) Larvae of *Musca sp.*
 - (b) Larvae of *Sarcopaga sp.*
 - (c) Larvae of *Lucilia sp.*
 - (d) All the above
- 452. Second intermediate host of oviduct fluke are :
 - (a) Dragon flies
 - (b) Water snail
 - (c) Grasshopper
 - (d) None
- 453. Insects which possess sponging mouth parts and do not bite are :
 - (a) Fleas
 - (b) House flies
 - (c) Mosquitoes
 - (d) Deer flies
- 454. Scientific name of horse fly is
 - (a) *Tabanus equinum*
 - (b) *Oestrus ovis*
 - (c) *Simulium sp*

- (d) None of the above
455. Which of the following is a non granular WBC?
- a. Lymphocytes
 - b. Neutrophil
 - c. Basophil
 - d. Eosinophil
456. In Classification of helminthes the higher taxa platyhelminthes containing helminthes of veterinary importance are :
- (a) Flat worm
 - (b) Round worm
 - (c) Thornyheaded worms
 - (d) None
457. In Filarial nematode, the life cycle is.....
- (a) Direct
 - (b) Direct and Indirect
 - (c) Indirect
 - (d) None
458. Morocco leather condition is caused by :
- (a) *Hemonchus contortus*
 - (b) *Ostertagia ostertagia*
 - (c) *Cooperia curtesi*
 - (d) None
459. *Strongylus vulgaris* is responsible for :
- (a) Colic in ruminants
 - (b) Paralysis in horse
 - (c) Colic in horse
 - (d) None
460. *Bunostomum trigonocephalum* is hook worms of :
- (a) Sheep and Goat
 - (b) Cattle
 - (c) Dog
 - (d) None
461. Disease caused by *Clostridium septicum* is-
- (A) Black Quarter
 - (B) Enterotoxaemia
 - (C) Braxy
 - (D) Tetanus
462. Sulphur granules in yellowish pus is seen in-
- (A) Glanders
 - (B) Strangles

- (C) Staphylococcosis
(D) Actinomycosis
463. Toxins of organism causes peripheral nerve paralysis in cattle-
(A) Botulism
(B) Tetanus
(C) Both
(D) None of the above
464. Diamond skin disease is primarily a disease of-
(A) Horse
(B) Lion
(C) Sow
(D) Turkey
465. In Johne's disease, corrugation is not the feature in-
(A) Cattle
(B) Sheep
(C) Horse
(D) Both (B) and (C)
466. Most susceptible species for Haemorrhagic septicemia-
(A) Sheep
(B) Buffalo
(C) Cattle
(D) Pig
467. Erythritol sugar plays important role in pathogenesis of-
(A) *Clostridium spp.*
(B) *Brucella spp.*
(C) *Bacillus spp.*
(D) *Corynebacterium spp.*
468. Substance responsible for increase penetration of Lyssa virus-
(A) Hyaluronidase
(B) Erythriol
(C) Protagen
(D) Amylase
469. Crop mycosis in poultry is caused by-
(A) Bacteria
(B) Mycoplasma
(C) Fungi
(D) Virus
470. Brooder's pneumonia in poultry is caused by-
(A) *Candida albicans*
(B) *Aspergillus fumigatus*
(C) *Haemophilus paragallinarum*

(D) *Pasturella multocida*

471. The best general anesthetic for canine is
- Xylazine
 - Thiopental
 - Acepromazine
 - Ketamine
472. To deliver live pups, cesarean section is performed under
- Thiopentone
 - Pentobarbitone
 - Acepromazine
 - Diazepam + Local anesthesia
473. To capture wild elephant the anesthetic used is
- Xylazine
 - Etorphine
 - Medazolam
 - Morphin
474. The sedation in camel is performed by using xylazine intravenously
- 2-3 ml
 - 8-10 ml
 - 25 -30 ml.
 - 30-40 ml
475. The best inhalation anesthetic for closed circuit is
- Cyclopropane
 - Ether
 - Nitrous oxide
 - Chloroform
476. Deep chested dog is prone to following surgical condition
- Intestinal obstruction
 - Diaphragmatic hernia
 - Gastric dilatation and torsion
 - Gastric ulcer
477. Pathognomic sign of sharp molar is
- Quidding
 - Halitosis
 - Salivation
 - All of above

478. The development of pouch in lower neck just after feeding in case of buffalo is noticed in
- Pyloric stenosis
 - Oesophageal ulcer
 - Choke
 - Oesophageal diverticulum
479. Continuous lacrimation in canine is characteristic sign of
- Obstruction of lacrimal duct
 - Entropion
 - Conjunctivitis
 - Ectropion
480. Myringotomy in canine is performed for the correction of
- Otitis interna
 - Otitis media
 - Otitis externa
 - Othaematoma
481. Each of the following is an amino acid derivative EXCEPT:
- Epinephrine
 - Melatonin
 - Thyroxine
 - TSH
482. Which of the following hormones does not act via a second messenger system?
- Glucagon
 - Epinephrine
 - GH
 - Testosterone
483. What hypophyseal structure receives signals from the hypothalamus via the hypophyseal portal system?
- Follicular medulla
 - Adenohypophysis
 - Neurohypophysis
 - Pars intermedia
484. Low blood glucose typically results in the secretion of all of the following EXCEPT:
- Glucagon
 - Thyroxine
 - hGH
 - PTH
485. What hormone increases intestinal calcium absorption?
- Calcitriol
 - Calcitonin

- c. Parathormone
 - d. Pancreatic polypeptide
486. The _____ cells of the pancreas secrete insulin.
- a. Chief
 - b. Principal
 - c. Alpha
 - d. Beta
487. Oxytocin is secreted by the:
- a. Adenohypophysis
 - b. Neurohypophysis
 - c. Zona glomerulosa
 - d. Pars intermedia
488. Hyposecretion of cortisol can cause:
- a. Cretinism
 - b. Diabetes mellitus
 - c. Diabetes insipidus
 - d. Addison's disease
489. The space in the middle of the thoracic cavity where the heart resides is the:
- a. Pericardial cavity
 - b. Pericardium
 - c. Pleural Cavity
 - d. Mediastinum
490. The foramen ovale in the fetal heart is located in the:
- a. Right atrium
 - b. Left atrium
 - c. Interventricular septum
 - d. Interatrial septum
491. In body netobimin is converted into
- a) Albendazole
 - b) Mebendazole
 - c) Fenbendazole
 - d) Lobendazole
492. Which one of the followings not an anaesthetic?
- a) Phencyclidine
 - b) Xylazine
 - c) Ketamine
 - d) Cyclopropane
493. Diazepam does not possess the following action
- a) Sedative
 - b) Anticonvulsant
 - c) Analgesic

- d) Anxiolytic
494. The full life of drug is usually approximately
- a) Twice its half-life
 - b) Ten times its half- life
 - c) Five times its half- life
 - d) None of the above
495. The following is not a phenothiazine derivative
- a) Triflupromazine
 - b) Chlorpromazine
 - c) Promazine
 - d) Reserpine
496. Xylazine does not have the following effect
- a) Analgesic
 - b) Muscle relaxant
 - c) Sedative
 - d) Antipyretic
497. Which one of the following has high water to lipid partition coefficient?
- a) Chlorpromazine
 - b) Ether
 - c) Halothane
 - d) None of the above
498. With which of the following anaesthetic is eructation reflex not affected.
- a) Ketamine
 - b) Xylazine
 - c) Phenobarbitone
 - d) Equithesin
499. Which of the following statements is false?
- a) Thiopentone is ultra short acting barbiturate
 - b) Thiopentone is administered by intramuscular route
 - c) Thiopentone administered typically shows barbiturate apnoea.
 - d) Thiopentone is yellowish powder used as a sodium salt.
500. Which one of the following is an example of physical antagonism?
- a) Administration of activated charcoal in poisoning
 - b) Relief of acidity using antacids
 - c) Administration of Atropine in organophosphate poisoning
 - d) None of the above
501. The body region of the sheep in which best quality wool is found
- a. Breech
 - b. Shoulder
 - c. Head
 - d. Tail
502. A growing female sheep between sixth month to maturity.

- a. Doeling
 - b. Wedder
 - c. Hogget
 - d. Lamb
503. Native place of sannem is
- a. England
 - b. Switzerland
 - c. U. S. A.
 - d. China
504. Major breeding season of Indian sheep is
- a. June to august
 - b. December to January
 - c. March to april
 - d. Year round
505. The term used for meat of rabbit is
- a. Mutton
 - b. Pork
 - c. Chevon
 - d. Venison
506. Location of rabbit breeding farm in Gujarat
- a. Bhuj
 - b. Ankleshwar
 - c. Morbid
 - d. Mandvi
507. India has total number of sheep breed
- a. 40
 - b. 15
 - c. 20
 - d. 28
508. Gurej sheep breed found in
- a. J & K
 - b. Himachal Pradesh
 - c. Hariyana
 - d. Punjab
509. Spiti is the horse breed found at
- a. J & K
 - b. Himachal Pradesh
 - c. Hariyana
 - d. Punjab
510. The disease found in sheep during monsoon
- a. Foot rot
 - b. F. M. D.
 - c. Enterotoxaemia
 - d. Rinderpest
511. Bacteria which require living medium for their growth is
- a. Mycoplasma and Leptospira

- b. Chlamydia and Rickettsia
 - c. Rickettsia and Mycoplasma
 - d. None of these
512. Pallisade arrangement is characteristic of
- a. Corynebacterium
 - b. *E.coli*
 - c. Campylobacter
 - d. Listeria
513. Mycoplasma organisms are pleomorphic in nature due to
- a. Absence of cell wall
 - b. Absence of rigid cell wall
 - c. Small in size
 - d. Species specific in nature
514. Periodic opthalmia in horses is a sequel of
- a. Glanders
 - b. Mycoplasmosis
 - c. Equine leptospirosis
 - d. Babesiosis
515. Chlamydia can be stained with following stains except:
- a. Gram's stain
 - b. Macchiavello stain
 - c. Gimenez stain
 - d. Castaneda stain
516. Tuberculin test is based on
- a. Delayed hypersensitivity
 - b. Arthus reaction
 - c. Anaphylactic reaction
 - d. All of above
517. Calf hood vaccination is advisable for
- a. Brucellosis
 - b. Salmonellosis
 - c. Pasteurellosis
 - d. Neonatal calf diarrhoea
518. The germ tube production is characteristic of
- a. *Candida albicans*
 - b. *Corynebacterium pyogenes*
 - c. *Cryptococcus neoformans*
 - d. *Pseudomonas aeruginosa*
519. Experimentally *Mycobacterium leprae* can be cultivated on

- a. Bacterial media with mycobactin.
 - b. Cell culture system.
 - c. Nine banded armadillo
 - d. None of the above
520. Viruses that exist in cells and cause recurrent disease are considered
- a. Oncogenic
 - b. Cytopathic
 - c. Latent
 - d. Resistant
521. For transformation reactions competent *E. coli* cells can be prepared by treating log phase *E. coli* cells with:
- a. Calcium Chloride
 - b. Magnesium Chloride
 - c. EDTA
 - d. None of the above
522. A DNA molecule from external source can be inserted into the host cells by following methods:
- a. Heat shock treatment
 - b. Electroporation
 - c. Lipofection
 - d. All of the above
523. In a PCR reaction two short oligonucleotide used which flank the DNA sequence to be amplified is called:
- a. Primer
 - b. Probe
 - c. Template
 - d. None of the above
524. The source of *Taq polymerase* used in the PCR reaction is:
- a. *E. coli*
 - b. *Thermus aquaticus*
 - c. Both
 - d. None
525. The source of “Reverse transcriptase” enzyme used for c-DNA synthesis is:
- a. Moloney murine leukemia virus (MuLV)
 - b. Avian myeloblastosis virus (AMV)
 - c. Both
 - d. None
526. Quantitative studies using PCR technique can be done with:
- a. RT-PCR
 - b. Real Time PCR
 - c. Micro array
 - d. None of the above

527. Most type II restriction endonucleases recognize and cleave DNA within particular sequence of 4-8 nucleotides which have two fold rotational symmetry. Such sequences are called:
- Palindromes
 - Short tandem repeats
 - Both
 - None
528. For restriction analysis of DNA molecule, the type of “restriction endonucleases” used are:
- Type I RE
 - Type II RE
 - Type III RE
 - None
529. c-DNA can be synthesized on a RNA template using following primers:
- Sequence specific primers
 - Oligo dT
 - Random hexamers
 - All of the above
530. *Isoschizomers* are Restriction enzymes which:
- Recognize and cut the same sequence
 - Recognize the same sequence but cut site vary
 - Both
 - None
531. What is the name of the main lymphatic duct that arises in the abdomen?
- tracheal duct
 - cisterna chyli
 - right lymphatic duct
 - cisterna magna
532. Which part of the respiratory system is also responsible for the production of sound?
- hyoid apparatus
 - eustachian tube
 - pharynx
 - larynx
533. Which muscle is responsible for increasing the volume of the thoracic cavity during inspiration?
- diaphragm
 - hypxial
 - external oblique
 - epaxial
534. The basin shaped structure in the center of the kidney is called
- cortex
 - hilus

- c. pelvis
- d. medulla
- 535. In which layer of the skin are the sensory nerve endings found?
 - a. hypodermis
 - b. epidermis
 - c. dermis
 - d. subcutis
- 536. Which is the most developed special sense in the birds?
 - a. sight
 - b. touch
 - c. smell
 - d. taste
- 537. The space between the incisors and the cheek teeth of rabbits and rodents is known as the
 - a. diastema
 - b. philtrum
 - c. dewlap
 - d. acromion
- 538. Visceral skeleton present in camel
 - a. Os penis
 - b. Os phrenic
 - c. Os cardis
 - d. Os rostrum
- 539. Which is the type of placenta present in bitch?
 - a. Zonary
 - b. Diffuse
 - c. Discoidal
 - d. Cotyledonary
- 540. Total number of incissor teeth in ox
 - a. Six
 - b. Four
 - c. Eight
 - d. Ten
- 541. Outer covering of the nerve is
 - a. Endoneurium
 - b. Perineurim
 - c. Epineurium
 - d. Epiteurineum
- 542. Which one of the following is a exoskeleton?
 - a. Hoof

- b. Metacarpus
 - c. Sternum
 - d. Ulna
543. Which one of the gland is a apocrine gland?
- a. Mammary gland
 - b. Testes
 - c. Parotid salivary gland
 - d. Pancreas
544. Part of the peritoneum that covers the fallopian tube with abdominal cavity:
- a. Mesometrium
 - b. Mesosalphinx
 - c. Mesoovarium
 - d. Broad ligament
545. Which of the following plays a part in thermoregulation?
- a. Hair
 - b. Claws
 - c. Sebaceous gland
 - d. Meibomian gland
546. Which of the following is used for predicting future performance of individuals
- (a) Heritability
 - (b) Repeatability
 - (c) Genetic correlation
 - (d) None of the above
547. The response to selection increases when
- (a) Proportion of individuals selected decreases
 - (b) Proportion of individuals selected increases
 - (c) Heritability of the trait is low
 - (d) None of the above
548. The heritability of a character in narrow sense will be more when it is controlled by
- (a) Genes with non-additive effects
 - (b) Genes with additive effects
 - (c) Both (a) and (c)
 - (d) None of the above
549. The genotypic value of quantitative traits is
- (a) Sum total of effects
 - (b) sum total of gene effects
 - (c) Sum total of additive effects
 - (d) None of the above

550. The specific combining ability of a line is due to gene effects
- (a) Epitasis
 - (b) Dominance
 - (c) Over-dominance
 - (d) All of above
551. The dry period in buffaloes can be reduced by
- (a) Individual selection
 - (b) Better management
 - (c) Family selection
 - (d) Progeny testing
552. The change in the fat % when selection is made for higher milk yield is due to
- (a) Natural selection
 - (b) (b) Direct selection
 - (c) Indirect selection
 - (d) None of these
553. The estimate of heritability of egg yield cannot be obtained by
- (a) Paternal half-sib correlation
 - (b) Regression of daughter on dam
 - (c) Regression of daughter on sire
 - (d) Maternal half-sib correlation
554. The precision of heritability estimate is known by its
- (a) Standard error
 - (b) Magnitude
 - (c) Method of estimation
 - (d) Deviation from
555. For selection of individuals for traits measured after life, we will prefer
- (a) Indirect selection
 - (b) Family selection
 - (c) Pedigree selection
 - (d) Any of these
556. The regression of offspring on mid parent provides the estimate of
- (a) $\frac{1}{2} h^2$
 - (b) $\frac{1}{4} h^2$
 - (c) h^2
 - (d) \sqrt{h}
557. The accuracy of estimating breeding value of a sire increased by
- (a) Decreasing the number of sires under test
 - (b) Decreasing the number of progeny of sire
 - (c) Increasing the number of progeny of sire
 - (d) None of the above

558. The Osborne index for cockerel selection is based on information from
(a) Individual performance and dam and sire families.
(b) Dam and sire families
(c) Progeny and pedigree
(d) Individual performance and pedigree
559. The generation interval can be reduced by using
(a) Genetic markers
(b) Progeny information
(c) Life time information
(d) Multi-trait selection
560. Diploid number of chromosomes in sheep is
(a) 60
(b) 54
(c) 38
(d) 64
561. Both hind limbs retained in the uterus beneath the body of the posteriorly presented fetus
a) Dog sitting posture
b) Breech presentation
c) Poll presentation
d) Wry neck
562. Acute angulation of the vertebral column of the fetus causing dorsal approximation of its head and tail is a
a) Perosomus elumbis
b) Amorphus globosus
c) Otter calf
d) Schistosomus reflexus
563. The release of which hormone is associated with the Ferguson's reflex .
a) Estroegn
b) Oxytocin
c) Progesterone
d) Relaxin
564. Penile Transmissible Neoplasia is observed in the
a) Ram
b) Stallion
c) Dog
d) Bull
565. Androgen Binding protein is secreted by
a) Ley dig cells
b) Sertoli cells
c) Spermatogonia

- d) Efferent ducts
566. Eversion of galeacapitis and crater shaped depressions in the nucleus
- a) Dag defect
 - b) Diadem defect
 - c) Cork screw defect
 - d) Abaxial defect
567. Effecting a change in the presentation is known as
- a) Rotation
 - b) Version
 - c) Extension
 - d) Flexion
568. Non dilation of cervix causing dystocia in ewes is known as
- a) Vertex
 - b) Foot nape
 - c) Ring womb
 - d) Wry neck
569. Pattern assumed by the semen upon drying on a glass slide
- a) Fern pattern
 - b) Crenellation pattern
 - c) Cork screw pattern
 - d) Zig Zag pattern
570. Test used to know the functional integrity of sperm membrane
- a) Sperm mucus penetration test
 - b) Hypo osmotic swelling test
 - c) Hamster egg penetration test
 - d) High temperature viability test
571. The end of the diestrus period is due to
- a. Recruitment of the ovulatory follicular wave.
 - b. A decrease in estradiol negative feedback.
 - c. Regression of the corpus luteum.
 - d. An increase in estradiol levels coming from the preovulatory follicle.
572. In the mare, transition from the non-breeding to the breeding season is caused by
- a. A decrease in melatonin.
 - b. A decrease in the day length.
 - c. A switch from positive to negative feedback by estradiol.
 - d. The presence of progesterone coming from the corpus luteum.
573. Granulosa cells are similar to Sertoli Cells in that both
- a. Have FSH receptors.
 - b. Have LH receptors.
 - c. Produce testosterone.
 - d. Have very low levels of cAMP.

574. The blood testis barrier is due to
- The inhibition to growth of blood vessels in the seminiferous tubules.
 - The presence of gap junctions between Sertoli cells.
 - The presence of tight junctions between Sertoli cells.
 - The basement membrane between the Sertoli cells and the interstitial space where the Leydig cells are located.
575. It has been demonstrated that dogs can be trained to detect estrus in cattle. Which of the following senses is being used by the dog to accomplish this task?
- Smell
 - Sight
 - Touch
 - Hearing
576. Intense educational activity for motivation and mobilization of community to action is known as
- Awareness
 - Campaign
 - Demonstration
 - G.D.
577. Diagram presentation of facts or ideas is known as
- Chart
 - Poster
 - Diagram
 - Book
578. A statement of policy to guide decision and action in a consistent manner is
- Principle
 - Law
 - Philosophy
 - Hypothesis
579. Call mode by farmers at the veterinary hospital for getting information is called
- Office call
 - Personal call
 - Community call
 - Tall call
580. A visual display which is never used alone for teaching programmed is
- Chart
 - Flipchart
 - Poster
 - Banner
581. Cheapest, Oldest & most effective aids of teaching is
- Black Board
 - White board

- (C) Display board
(D) Interactive board
582. A Statement of assumption validity of which is yet to be tested is known as
(A) Hypothesis
(B) Theory
(C) Principles
(D) Philosophy
583. A miniature replica of an object is called
(A) Specimen
(B) Model
(C) Sample
(D) Picture
584. A System of social relationship in and through which we live is known as
(A) Society
(B) Communication
(C) Cast
(D) Creed
585. Combination of seeing, hearing, and doing may help to retain-----in teaching Learning
(A) 50%
(B) 60%
(C) 70%
(D) 80%
586. AMUL was established in
(A) 1846
(B) 1848
(C) 1850
(D) 1950
587. Air and water are nature of goods
(A) Material
(B) Nominated
(C) Free
(D) Consumable
588. The demand is salt is
(A) Inelastic
(B) Elastic
(C) Prefect elastic
(D) Non elastic

589. AGMARK indicates
(A) Quality & Purity
(B) Quality
(C) Quantity
(D) Purity
590. Top level function is known as
(A) Management
(B) Administration
(C) Bureaucracy
(D) Line of control
591. Herd registration scheme in Gujarat is running for the breed
a. Mehasana buffalo
b. Gir cattle
c. Dangi cattle
d. Banni buffalo
592. The number of calving pen required on dairy farm depends on
a. Breedable females
b. Fertility rate
c. Calving interval
d. All of above
593. Dehorning in calves can be done at
a. 1 to 5 days
b. 7 to 0 days
c. 11 to 20 days
d. More than 30 days
594. The pulsation ratio in milking machine should be kept within the limit of
a. 1 : 1
b. 2.5 : 1
c. Both a & b
d. None
595. The major input for maximum contribution to cost of milk production
a. Labour
b. Electricity
c. Feeding
d. Breeding
596. The buffalo population (Millions) in Gujarat state as per livestock census 2007
a. 8.77
b. 7.97
c. 2.01
d. 4.64

597. Nilgai belong to the animal in category
- Wild ruminant
 - Wild non-ruminant
 - Domestic ruminant
 - Domestic non-ruminant
598. The gestation period (days) of leopard is
- 62 – 65
 - 92 – 95
 - 112 – 120
 - 150 -180
599. The birth weight of piglet in kg is
- 2 – 4 kg
 - 3 – 6 kg
 - 1 – 2 kg
 - 0.5 – 1 kg
600. Stag is the term utilize for
- Castrated goat
 - Castrated horse
 - Castrated sheep
 - Castrated pig
601. Tongue rolling is the type of behaviour in cow
- Detrimental
 - Stereotyped
 - Retired
 - Apathetic
602. Pig farming is the most developed in
- Himachal Pradesh
 - West Bengal
 - Bihar
 - Madhya Pradesh
603. Certification agency in organic farming is
- IARI
 - NDRI
 - APEDA
 - NPDP
604. Hissardale crossbred sheep breed developed from
- Australian merino
 - Bikaneri
 - Both
 - None of above

605. Fat tailed sheep breed found in India is
- Macheri
 - Chokla
 - Bhakarwal
 - Marwari
- 606 A narrow band surrounding the yolk that is almost void of blood vessels is known as
- Stream
 - Stigma
 - Strake
 - Strike
- 607 Chickens lay eggs on successive days is known as
- Pause
 - Clutches
 - Persistency
 - Both b and c
- 608 Sometime the infundibulum loses power to pick up a yolks, and yolks accumulate in body cavity. Such hen are known as
- Poor layer
 - External layer
 - Internal layer
 - Faulty layer
- 609 Pigments responsible for egg shell colour is produced by
- Magnum
 - Vagina
 - Uterus
 - Isthmus
- 610 The brown colour of eggshell is due to which pigments
- Carotenoids
 - Porphyrin
 - Xanthophylls
 - None of above
- 611 Preheating or pre-warming of egg is done
- Before candling
 - Before Cold storage
 - Before Setting
 - Before Hatching
- Eggs of average size and quality incubated in air with 50 to 60 % relative
- 612 humidity, they will lose approximately _____ % of their initial weight in 19 days of incubation
- 6 %
 - 12 %

- c. 18 %
 - d. 24 %
- 613 Best time for artificial insemination to get maximum fertility in poultry is
- a. Early morning
 - b. Before noon
 - c. After Noon
 - d. Late evening
- 614 The ammonia concentration in the poultry house should not be more than
- a. 2.5 ppm
 - b. 25 ppm
 - c. 50 ppm
 - d. 75 ppm
- 615 Nitrogen fixation is poor in
- a. Cage house
 - b. Deep litter house
 - c. Both A & B
 - d. None of the above
- 616 Pullets grown during the period when most of the days have decreasing light are known as
- a. In season flocks
 - b. Out season flocks
 - c. Mid season flocks
 - d. Odd season flocks
- 617 Pullets grown during the period when most of the days have increasing light are known as
- a. In season flocks
 - b. Out season flocks
 - c. Mid season flocks
 - d. Odd season flocks
- 618 Birds were placed in the laying house just before the onset of egg production is known as
- a. Housing
 - b. Shifting
 - c. Laying
 - d. None of above
- 619 Replacing old males in a flock with a set of new and younger male after about two-thirds of the egg production period is known as
- a. Replacement of flock

- b. Spiking the flock
 - c. Placement of flock
 - d. All of above
- 620. Distance between the bulbs in poultry house should be _____ times the distance from the bulb to the bird level.
 - a. 0.5 times
 - b. 5.0 times
 - c. 15 times
 - d. 1.5 times
- 621. Herpes simplex seen in....
 - a) Cattle
 - b) Dog
 - c) Elephant
 - d) None of above
- 622. Volumetric method for determination of fat% of milk.
 - a. Waste fall balance
 - b. Soxhlet method
 - c. Richmond sliding method
 - d. Garber method.
- 623. Which of the disinfectant is effective against wide range of micro organism in floor, wall and equipments
 - a) quick time
 - b) cresol 2-3% in hot water
 - c) costic soda 5%
 - d) Nil
- 624. Coagulation of water by chemical is essential in
 - a) slow sand filter
 - b) rapid sand filter
 - c) boiling
 - d) None
- 625. The desirable limit for fluoride should be (mg/litre)
 - a) 0.2
 - b) 1.5
 - c) 2.5
 - d) 0.6-1.8
- 626. In strong sewage B.O.D. is (mg/litre)
 - a) 50
 - b) 100
 - c) 300
 - d) None
- 627. Who was first chief of VPH in WHO
 - a) Dr. Guerin
 - b) Dr. Daniel E. Salmon

- c) Dr.Karl F.Meyer
- d) Dr.Martin Kaplan

- 628. Example of cyclozoonosis...
 - a) Toxoplasmosis
 - b) Taeniasis
 - c) Echinococcosis
 - d) Both b) & c)
- 629. Example of algal zoonosis
 - a) Scrub typhus
 - b) Actinomycosis
 - c) Fascioliasis
 - d) Protothecosis
- 630. In anthrax by which reaction Bacillus organism detected in blood smear
 - a) Mac Fadyean's reaction
 - b) Zeil Neelsen staining
 - c) Ascoli's precipitation test
 - d) None of above
- 631. Medium which is used in isolation of T.B. organism
 - A)XLD agar
 - b) LJ medium
 - c) EMJH medium
 - d) blood agar
- 632. Greenish colors of water is developed due to...
 - a) Iron
 - b) Organic matter
 - c) Algae flora
 - d) None of above
- 633. Ozone layer found at which height
 - a)10-20 km
 - b)70-80km
 - c)40-50km
 - d)90-100km
- 634. Optimum temperature range for adult pig is between
 - a) 0-3 °c
 - b) 40-50°c
 - c) 4-30°c
 - d)30-35°c
- 635. Which is Iron bacterium
 - a)Crenothrix

- b) Gellionella
- c) Klebsiella
- d) Both a) & b)

636. Incineration of carcass done by heating at which temperature
- a) 600⁰c
 - b) 800⁰c
 - c) 1300⁰c
 - d) 1000⁰c
637. *Oxyuris equi* are commonly known as :
- (a) Pin worm
 - (b) Caecal worm
 - (c) Stomach worm
 - (d) None
638. The condition 'Sweating blood' in horse is caused by :
- (a) *Parafilaria equi*
 - (b) *Dirofilaria immitis*
 - (c) *Parafilaria multipapillosa*
 - (d) None
639. *Seteria labiato-papillosa* of cattle causing :
- (a) Lumber paralysis in horse
 - (b) Lumber paralysis in sheep and goat
 - (c) Lumber paralysis in cattle
 - (d) None
640. The largest nematode of domestic animal is :
- (a) *Macracanthorhynchus hirudinaceus*
 - (b) *Diectophyma renale*
 - (c) *Ascaris sum*
 - (d) None
641. Acute fasciolosis is common in :
- (a) Cattle
 - (b) Sheep
 - (c) Buffalo
 - (d) Horse
642. Triclabendazole is a drug of choice for :
- (a) Liver fluke
 - (b) *Haemonchus* nematode
 - (c) Lung worm
 - (d) None
643. The blood fluke are usually present in :

- (a) Hepatic vein
 - (b) Portal vein
 - (c) Mesenteric vein
 - (d) None
644. *Taenia multiceps* is tape worm of dog and it's larval stage present in sheep/cattle is known as :
- (a) *Coenurus serialis*
 - (b) Hydatid
 - (c) *Coenurus cerebralis*
 - (d) None
645. Sputum is a diagnostic material in two infections of dog
- (a) *Ancylostoma caninum* and *Dictyophyma renale*
 - (b) *Filaroides* and *Angiostrongylus*
 - (c) *Schistosoma nasale* and *Stephanurus*
 - (d) None
646. Smallest and most pathogenic tapeworm of poultry is :
- (a) *Amoebotaenia*
 - (b) *Davainea proglotina*
 - (c) *Raillietina echinobothrida*
 - (d) None
647. A common term for myiasis caused by members of the calliphoridae is :
- (a) Blow-fly Strike
 - (b) Pediculosis
 - (c) Mange
 - (d) None
648. The larval of *Oestrus ovis* are commonly referred to as :
- (a) Gnats
 - (b) Warble
 - (c) Bots
 - (d) None
649. The condition 'false gid' in sheep is caused by :
- (a) *Multiceps multiceps*
 - (b) *Oestrus ovis* larva
 - (c) *Setaria digitata*
 - (d) None
650. *Ornithodoros moubata* is :
- (a) Hard tick
 - (b) Soft tick
 - (c) Mites
 - (d) Flea

651. Animal Protozoa are unicellular and they are :
(a) Eukaryotic
(b) Prokaryotic
(c) Monera
(d) None
652. Circling disease in cattle is caused by-
(A) *Listeria monocytogenes*
(B) *Erysipelothrix rhusiopathiae*
(C) *Streptococcus equi*
(D) *Chlamydia psittacii*
653. Intranuclear inclusion bodies are seen in-
(A) Pox diseases
(B) Herpes virus infection
(C) Adeno virus infection
(D) Lyssa virus infection
654. Negri bodies are seen in Rabies which are-
(A) Intranuclear
(B) Intracytoplasmic
(C) Both
(D) May be intranuclear or intracytoplasmic
655. Enlargement of Bursa of fabricius in poultry is seen in-
(A) CRD
(B) IB
(C) RD
(D) IBD
656. Zebra marking is predominant feature of-
(A) Johne's disease
(B) Tuberculosis
(C) Rinder pest
(D) Both (A) and (C)
657. CBPP differs from CCPP in-
(A) Both occur in same species
(B) Sequestra formation
(C) Mode of transmission
(D) Pathogenesis
658. Which bacterium is predisposed by *Fasciola hepatica* infestation-
(A) *Bacillus spp.*
(B) *Clostridium spp.*
(C) *Leptospira spp.*

- (D) *Pasturella* spp.
659. Which is the most potent aflatoxin-
- (A) M1
 - (B) M2
 - (C) B1
 - (D) B2
660. Curled toe paralysis in chicken is due to deficiency of-
- (A) Vitamin B12
 - (B) Vitamin B1
 - (C) Niacin
 - (D) Vitamin B2
661. Mn deficiency in chicken will lead to-
- (A) Pica
 - (B) Star grazing condition
 - (C) Crazy chick disease
 - (D) Slipped Tendon
662. Phosphorous deficiency in soil will predispose the cattle to-
- (A) Haemorrhagic septicemia
 - (B) Botulism
 - (C) Anthrax
 - (D) Mucosal disease
663. Black head disease is predominately a disease of-
- (A) Cattle caused by Parasite
 - (B) Poultry caused by Parasite
 - (C) Horse caused by Virus
 - (D) Pig caused by Virus
664. Which of the following is correctly matched-
- (A) Tubercular lesions are calcified-Buffalo
 - (B) Johne's disease-Foul smelling diarrhea
 - (C) Avian spp.- Dry pus
 - (D) Lamb dysentery- *Clostridium perfringens* type D
665. Post mortem of chick shows foul smelling yellow-brown watery Yolk, fibrinous perihepatitis and pericarditis, suspect the disease
- (A) Infectious Coryza
 - (B) Fowl Typhoid
 - (C) Coli Bacillosis
 - (D) Infectious Bronchitis
666. Haemorrhages at the tip of the proventricular gland is the pathognomic lesion seen in-
- (A) Ranikhet disease

- (B) Chronic respiratory disease
 - (C) Infectious bursal disease
 - (D) Avian influenza
667. The non-invasive confirmative diagnosis of diaphragmatic hernia in buffalo is
- a. Auscultation
 - b. Contrast radiography
 - c. Rumenotomy
 - d. Plain radiography
668. Liptek test is performed for the diagnosis of
- a. LDA
 - b. Vagal indigestion
 - c. Ruminal acidosis
 - d. Ruminal tympany
669. Metallic foreign bodies are mostly recovered from
- a. Esophagus
 - b. Reticulum
 - c. Rumen
 - d. Abomasum
670. The basic cause of vagal indigestion in cattle is
- a. Trauma
 - b. Inflammatory conditions
 - c. Ruminal impaction
 - d. Liver dysfunction
671. Distal intestinal obstruction in bullock is diagnosed by
- a. Clinical signs
 - b. Hematology
 - c. Per rectal examination
 - d. History
672. Common site for obstructive uroliths in bullock is
- a. Prescrotal
 - b. Neck of bladder
 - c. Pelvic urethra
 - d. Post scrotal
673. The surgical correction of teat pea in cattle is performed by
- a. Teat splitter
 - b. Hudson teat spider
 - c. Teat tumour extractor
 - d. Teat dilator
674. Umbilical hernia is most commonly seen in
- a. Cattle

- b. Dog
 - c. Pig
 - d. Horse
675. During surgery arterial bleeding is controlled by
- a. Haemostat
 - b. Thumb forceps
 - c. Allis tissue forcep
 - d. Rat tooth forceps
676. The best technique for making instruments germ free is
- a. Direct flame
 - b. Boiling water
 - c. Chemical
 - d. Autoclave
677. Sweeney is characterized by atrophy of
- a. All muscles
 - b. Gastrocnemius muscle
 - c. Scapular muscle
 - d. None of above
678. Laminitis means that
- a. Animal walks lame
 - b. Inflammation of joints
 - c. Inflammation of laminae
 - d. None of above
679. Treatment of upward fixation of patella
- a. Planter tenotomy
 - b. Medial patellar desmotomy
 - c. Middle patellar desmotomy
 - d. Cunion tenotomy
680. Inflammation of stifle joint is known as
- a. Laminitis
 - b. Omarthritis
 - c. Gonitis
 - d. Joint mice
681. Oozing of inflammatory exudates at coronary band in horse hoof is known as
- a. Arthritis
 - b. Side bones
 - c. Quittor
 - d. Curb
682. Which blood vessel does NOT bring deoxygenated blood directly to the heart?

- a. Pulmonary vein
 - b. Coronary Sinus
 - c. Inferior Vena cava
 - d. Superior Vena Cava
683. If there is a blockage between the AV node and the AV bundle, how will this affect the appearance of the EKG?
- a. PR interval would be smaller
 - b. QRS interval would be shorter
 - c. There would be more P waves than QRS complexes
 - d. There would be more QRS complexes than P waves
684. A valve damaged by rheumatic fever fails to open completely. This is known as:
- a. Stenosis
 - b. Heart Block
 - c. Ischemia
 - d. MI
685. According to the Frank-Starling Law of the heart, CO is directly related to:
- a. Ventricular muscle mass
 - b. Heart Rate
 - c. Amount of blood returning to the heart
 - d. ESV
686. The T Wave on an EKG represents:
- a. Ventricular Depolarization
 - b. Ventricular Repolarization
 - c. Atrial Depolarization
 - d. Atrial Repolarization
 - e. Ventricular Systole
687. Cardiac output is equal to:
- a. $HR \times SV$
 - b. HR/SV
 - c. $EDV - ESV$
 - d. $(EDV - SV) \times HR$
688. Which of the following represents the outermost layer of the heart?
- a. Epicardium
 - b. Parietal pericardium
 - c. Myocardium
 - d. Subendocardium
689. Which of the following cell types is responsible for skeletal muscle regeneration?
- a. Myoepithelial cell
 - b. Myofibril
 - c. Satellite cell
 - d. Myofibroblast

690. How many T-tubules lie within a single skeletal muscle sarcomere?
- 1
 - 2
 - 3
 - 4
691. The connective tissue layer that bundles skeletal muscle fibers into fascicles is the:
- Perichondrium
 - Perineurium
 - Perimysium
 - Epimysium
692. An overlap of actin and myosin filaments occurs in the:
- A Band
 - I Band
 - Z Line
 - H Band
693. Which of the following does not describe skeletal muscle fibers?
- Striated
 - Typically voluntary
 - Multinucleate
 - Branched
694. Which of the following cells is responsible for myelin formation in the peripheral nervous system?
- Astrocyte
 - Oligodendrocyte
 - Schwann cell
 - Microglial cell
695. The peripheral nervous system includes the:
- Somatic nervous system
 - Brain
 - Spinal cord
 - Nuclei
696. A neuron with many short dendrites and a single long axon is a:
- Multipolar neuron
 - Bipolar neuron
 - Unipolar neuron
 - None of the above
697. Graded Dose- Response curve has
- a) Shape of hyperbola on simple graph paper and 'S' shape on semi- log paper
 - b) Shape of 'S' on both simple and semi-log graph paper
 - c) Shape of 'S' on simple graph paper and shape of hyperbola on semi log paper.
 - d) Shape of hyperbola on both simple and semi log graph paper.

698. Which of the following inhibits uptake of acetylcholine in to vesicles
- a) Vesamicol
 - b) Cobra toxin
 - c) Bungaro toxin
 - d) Botulinum toxin
699. Which of following is G-protein coupled receptors?
- a) Muscurinic
 - b) Nicotinic
 - c) Alpha adrenergic receptors
 - d) a and b
700. Which of following is used in the treatment of *myasthenia gravis*
- a) Dopamine
 - b) Neostigmine
 - c) Atropine
 - d) Benzodiazepam
701. Which of following is used for relief of heaves in horse?
- a) Oxytocin
 - b) Atropine
 - c) Methanol
 - d) Frusemide
702. Which of following drug increases blood pressure, heart rate and force of contractions.
- a) Epinephrine
 - b) Atropine
 - c) Laetolol
 - d) Pindalol
703. Which of followings is a not a saline diuretics.
- a) Magnesium sulphate
 - b) Mannitol
 - c) Sorbitol
 - d) Acetazolemide
704. What is the site of action of carbonic anhydrase inhibitors?
- a) Throughout the length of the tubule
 - b) Loop of Henle
 - c) PCT
 - d) DCT
705. In which of the following animals emetics are not used?
- a) Rats
 - b) Cattle
 - c) Horse
 - d) All of the above

706. Furosamide causes all except one
- a) Metabolic alkalosis
 - b) Hypocalcaemia
 - c) Hypokalemia
 - d) Oligouria
- 707) Generally, which of the following is in the correct order as dosage is increased?
- a) $ED_{50} < LD_{50} < TD_{50}$
 - b) $ED_{50} < TD_{50} < LD_{50}$
 - c) $LD_{50} < TD_{50} < ED_{50}$
 - d) $LD_{50} < ED_{50} < TD_{50}$
 - e) $TD_{50} < LD_{50} < ED_{50}$
- 708) Which of the following is considered the therapeutic index (or ratio)?
- a) $T.I. = TD_{50} / ED_{50}$
 - b) $T.I. = LD_{50} / ED_{50}$
 - c) $T.I. = ED_{50} / TD_{50}$
 - d) $T.I. = ED_{50} / LD_{50}$
 - e) A & B
- 709) Which of the following is considered the brand name?
- a) Paracetmol
 - b) Crocin
 - c) β -blocker
 - c) "off label" use
 - d) Antipyretics
- 710) Which of the following is NOT a protein target for drug binding?
- a) Side of action (transport)
 - b) Enzymes
 - c) Carrier molecules
 - d) Ion channels
711. The general steps in the viral multiplication cycle are:
- a. Adsorption, penetration, replication, maturation and release.
 - b. Endocytosis, penetration, replication, assembly and lysis.
 - c. Adsorption, uncoating, replication, assembly and budding.
 - d. Endocytosis, penetration, replication, maturation and exocytosis.
712. In dog canine adenovirus infection produces
- a. Pink eye
 - b. Blue eye
 - c. Pearly eye
 - d. None
713. Choose the laboratory animal most suitable for typing FMD virus
- a. Guinea pig
 - b. Hamster

- c. Weaned mice
 - d. Rat
714. Biological vector of Bluetongue virus is
- a. Aedes
 - b. Culicoides
 - c. Anopheles
 - d. House fly
715. Double stranded segmented RNA with 10-12 segments is the features of family
- a. Reoviridae
 - b. Retroviridae
 - c. Orthomyxoviridae
 - d. Paramyxoviridae
716. First anti rabies vaccine was developed by
- a. Edward Jenner
 - b. Louis Pasteur
 - c. Robert Koch
 - d. Robert Hook
717. Separation of RBCs from virus is called
- a. Elution
 - b. HA
 - c. HI
 - d. Eclipse
718. The viral agent produces diphagic fever, respiratory distress, nervous symptoms and hard pad disease in dog is
- a. Canine distemper virus.
 - b. ICH virus
 - c. Rabies Virus
 - d. IBH virus
719. Virus having RNA dependent DNA polymerase
- a. Retrovirus
 - b. Reovirus
 - c. Rabies virus
 - d. Rubella virus
720. Chicken pox in man is caused by
- a. Pox virus
 - b. Herpes virus
 - c. Adeno virus
 - d. Parvo virus
721. Swine Influenza virus associated with current pandemic in humans is
- a. H1N1
 - b. H2N2
 - c. H3N2

- d. H5N1
722. Chief source of leptospira is
- Blood
 - Urine
 - Milk
 - Faeces
723. Growth of brucella organisms is favored due to
- Erythritol
 - Sorbitol
 - Glucose
 - Protein
724. *E.coli*
- Grows at 15-40° C.
 - Lactose fermenter
 - Motile
 - All of these
725. Spore forming bacteria
- Bacillus
 - Clostridium
 - Both a and b
 - None
726. *Isoschizomers* are Restriction enzymes which:
- Recognize and cut the same sequence
 - Recognize the same sequence but cut site vary
 - Both
 - None
727. *Neoschizomers* are Restriction enzymes which:
- Recognize and cut the same sequence
 - Recognize the same sequence but cut site vary
 - Both
 - None
728. The enzymes used for joining two DNA molecule is:
- DNA gyrase
 - DNA ligase
 - Topoisomerase
 - Helicase
729. Which of the following has the highest density:
- Relaxed genomic DNA
 - Supercoiled DNA

- c. Plasmid
- d. RNA

730. Homo polymer tail can be added by using enzyme:
- a. Ligase
 - b. Phosphate kinase
 - c. Terminal deoxytransferase
 - d. None
731. The plasmid which is maintained in the host cell in multiple copies are called:
- a. Relaxed
 - b. Stringent
 - c. Conjugative
 - d. None
732. The plasmid which is maintained in the host cell in limited number of copies are called:
- a. Relaxed
 - b. Stringent
 - c. Conjugative
 - d. None
733. RNAs that catalyze biological reactions, such as self-splicing introns, are known as:
- a. Enzyme
 - b. Ribozyme
 - c. Sliceosome
 - d. None
734. The 2 μ m plasmid is found in:
- a. *Escherichia coli*
 - b. *Pneumococcus*
 - c. *Bacillus anthracis*
 - d. *Sacchromyces cerevisiae*
735. Which of the following statement is true for life cycle of Lysogenic phages:
- a. They immediately induce lysis of host cells for release of new virions
 - b. Phage DNA is integrated with the host DNA and retained for several generations
 - c. Both the above depending upon the environmental condition
 - d. None of the above
736. Genes cloned with M 13 based vector can be obtained in the form of:
- a. Single stranded DNA
 - b. Double stranded DNA
 - c. Single stranded RNA
 - d. None of the above

737. At 600 nm, one unit optical density (OD) of *E. coli* culture corresponds roughly to:
- 1 X 10⁶ cells/ml
 - 1 X 10⁷ cells/ml
 - 1 X 10⁸ cells/ml
 - 1 X 10⁹ cells/ml
738. EDTA present in lysis solution has following functions:
- Chelates Mg⁺⁺ ions and thus inhibits the activity of enzyme DNase
 - Removes Mg⁺⁺ ions that are essential for preserving the overall structure of cell envelope
 - Both of the above
 - None of the above
739. Which of the following match is incorrect:
- SDS: Cell Lysis
 - EDTA: Chelating Mg⁺⁺ ions
 - Proteinase K: Degradation of Protein
 - Isoamyl alcohol: precipitation of DNA
740. CTAB used is isolation of DNA forms complexes with:
- DNA
 - Proteins
 - Carbohydrates
 - None of The above
741. Guanidinium thiocyanate is useful in DNA isolation because:
- It forms complexes with DNA molecule
 - It denatures and dissolves all biochemical substances other than nucleic acid
 - In its presence DNA binds tightly to silica particles
 - Both b & c
742. Which one of the following type of placenta is found in goat?
- Zonary
 - Cotyledonary
 - Diffuse
 - Discoidal
743. The lymphatics are absent in
- Intestine
 - Uterus
 - Brain
 - Udder
744. The pancreatic acinus is characterized by presence of
- Hassal's corpuscle
 - Centro-acinar cells
 - central artery
 - central vein
745. The eccentric placed central artery is found in

- a. Hepatic lobule
 - b. Osteon
 - c. Spinal cord
 - d. Spleen
- 746 The purkinjee cells are found in
- a. Heart
 - b. Cerebrum
 - c. Cerebellum
 - d. Spinal cord
- 747 The tendon cell is
- a. Fibroblast
 - b. Myoblast
 - c. Osteoblast
 - d. Chondroblast
- 748 Which one of the following placenta found in mare?
- a. Cotyledonary
 - b. Diffuse
 - c. Zonary
 - d. Discoidal
- 749 Which of the following nerve is the largest cranial nerve?
- a. Trigeminal
 - b. Vagus
 - c. Sciatic
 - d. None of the above
- 750 Which one of the following contains cerebrospinal fluid?
- a. Epidural space
 - b. Subdural space
 - c. Subarachnoid space
 - d. None of above
- 751 Which one of the following ligament is great importance for treatment of upward fixation of patella in the bullock?
- a. Medial patellar ligament
 - b. Middle patellar ligament
 - c. Lateral patellar ligament
 - d. Cruciate ligament
- 752 Which one of the following species presents single occipital condyle in skull?
- a. cattle
 - b. Horse
 - c. Dog
 - d. Poultry

- 753 Which one of the following animal vomits only through nostril because of its very long and well developed soft palate?
- a. Ox
 - b. Horse
 - c. Dog
 - d. Pig
- 754 Animal which walks on the hoof is called as?
- a. Plantigrade
 - b. Unguligrade
 - c. Digitigrade
 - d. None of above
- 755 Which type of placenta present in cow?
- a. Syndesmochorial
 - b. Epi theleochorial
 - c. Endotheliochorial
 - d. Haemochorial
- 756 Which of the following animal presents ovulation fossa on its ovary?
- a. Cow
 - b. Mare
 - c. Bitch
 - d. Doe
- 757 Which of the following structure produces voice in the fowl?
- a. Larynx
 - b. Pharynx
 - c. Syrinx
 - d. None of the above
- 758 Which is the space present between vertebral canal and spinal duramater?
- a. Subarachoid space
 - b. Subdural space
 - c. Epidural space
 - d. Dural space
- 759 Which one of the following vein is called as milk vein in cow?
- a. External jugular vein
 - b. Subcutaneous abdominal vein
 - c. Umbilical vein
 - d. None of above
- 760 All the spinal nerves are:
- a. Mixed type
 - b. Sensory type
 - c. Motor type
 - d. None of the above

- 761 Which one of the following foetal membrane encloses embryo in fluid sac?
- a. Chorion
 - b. Amnion
 - c. Yolk sac
 - d. Allantois
- 762 Down syndrome is an example of
- (a) Monosomy
 - (b) Trisomy
 - (c) Triploidy
 - (d) Polyploidy
- 763 Outward expression of a trait is called
- (a) Genotype
 - (b) Phenotype
 - (c) Karyotype
 - (d) all of these
764. Colour blindness in human is
- (a) Sex limited trait
 - (b) Sex linked trait
 - (c) Sex influenced trait
 - (d) None of above
- 765 What should be the performance of progeny above the herd average in order to declare the bull as a proven bull?
- (a) 20 %
 - (b) 5 %
 - (c) 10 %
 - (d) 15 %
- 766 The nullisomy is an example of
- (a) Anuploidy
 - (b) Euploidy
 - (c) Both
 - (d) None
- 767 The structural change in a chromosome in which a segment is oriented in a reverse order is called as
- (a) Tranlocation
 - (b) Duplication
 - (c) Deletion
 - (d) Inversion
- 768 The regression of offspring on mid-parent value estimates
- (a) $\frac{1}{2} h^2$

- (b) $\frac{1}{4} h^2$
 (c) h^2
 (d) None of these
- 769 The criss cross pattern of inheritance is seen in
 (a) Sex limited trait
 (b) Sex linked trait
 (c) Sex influence trait
 (d) None of above
- 770 The sudden heritable changes in genetic material is called as
 (a) Duplication
 (b) Mutation
 (c) Deletion
 (d) None of these
- 771 Mutation resulting from replacement of base pair of purine with purine or
 pyrimidine with pyrimidine is called as
 (a) Transition
 (b) Tansversion
 (c) Translocation
 (d) None of these
- 772 The Coiling Pattern of Shell in Snail is an example of
 (a) Extra nuclear inheritance
 (b) Maternal inheritance
 (c) Cytoplasmic inheritance
 (d) all of above
- 773 The sex index (X/A) value of 0.5 in Drosophila indicates
 (a) Nomal male
 (b) Nomal female
 (c) Super male
 (d) Super female
- 774 Genotype of purebred Pea combed birds is
 (a) RrPp
 (b) RRpp
 (c) rrPP
 (d) rrpp
- 775 The phenotypic ratio of recessive epistasis is
 (a) 9:3:4
 (b) 9:7
 (c) 12:3:1
 (d) 15:1

- 776 The medium sized milch breed of buffalo which requires less maintenance is
(a) Murrah
(b) Jafarabadi
(c) Surti
(d) None
- 777 Central Institute for research on goat is located at
(a) Karnal
(b) Izzatnagar
(c) Makhdoom
(d) Hissar
- 778 Booroola gene in Garole sheep refers to
(a) Fecundity
(b) Wool production
(c) Body weight
(d) Milk production.
- 779 The choice of exotic breed for improving milk production in cattle in hilly areas is
(a) HF
(b) Jersey
(c) both
(d) none
- 780 Red Kandhari cattle belongs to
(a) U.P.
(b) M.P.
(c) A.P.
(d) Maharastra
- 781 The exotic cattle breed of choice for improving milk production is
(a) HF
(b) Jersey
(c) Brown Swiss
(d) Guernsey
- 782 Vibriosis in a herd can best be diagnosed by
a) Serum agglutination test
b) Vaginal mucus agglutination test
c) Milk ring test
d) Rose Bengal plate test
- 783 Induction of estrus by premature regression of the corpus luteum can be done by using
a) PRID
b) GnRH

- c) PGF2 α
d) HCG
- 784 Under which of the following conditions animal is acyclic
a) Delayed ovulation
b) Silent heat
c) Anovulation
d) None of the above
- 785 Time of ovulation in a cow is
a) 12-24 hrs before the end of estrum
b) 30-40 hrs after the end of estrum
c) About the last day of estrum
d) 10-15 hrs after the end of estrum
- 786 Flehman's reaction is not observed in
a) Bull
b) Boar
c) Stallion
d) Ram
- 787 The condition in which fetal bones crepitate within the uterus on rectal examination
a) Mummification
b) Hydroallantois
c) Maceration
d) None of the above
- 788 The true bacterial venereal disease is
a.) Brucellosis
b.) Campylobacteriosis
c.) Genital tuberculosis
d.) Leptospirosis
- 789 Endometrial cups secrete PMSG hormone during
a.) 20-60 days
b.) 100-180 days
c.) 40-120 days
d.) 180-250 days
- 790 In bitch the abdominal palpation can be best performed for early pregnancy diagnosis during
a.) 15-20 days
b.) 28-32 days
c.) 45-50 days
d.) 55-60 days
- 791 Which of the following vulval suture technique has the least disadvantages for the retention of prepartum cervicovaginal prolapse?
a.) Caslicks operation

- b.) Matress suture
 - c.) Quill suture
 - d.) Buhner's suture
- 792 Cuboni test is done to detect the presence of
- a.) Progesterone
 - b.) PMSG
 - c.) Estrogen
 - d.) None of the above
- 793 Defective fetal deglutition is thought to be one of the causes of
- a.) Hydroallantois
 - b.) Hydroamnios
 - c.) Hydrocephalus
 - d.) Fetal ascitis
- 794 "Buller cow" is representing the
- a.) Follicular cyst
 - b.) Luteal cyst
 - c.) Cystic corpora lutea
 - d.) Par ovarian cyst
- 795 Yellowish or whitish, thick, opaque uterine secretion nourishing the ovum and embryo is called
- a.) Lochia
 - b.) Yolk sac
 - c.) Uterine milk
 - d.) Oviductal fluid
- 796 Length of diestrus period of estrus cycle in bovine is
- a) 10 days
 - b) 13 days
 - c) 18 days
 - d) 15 days
- 797 Period of embryo in cattle is
- a) 13- 45 days
 - b) 18-50 days
 - c) 10-12 days
 - d) 45-280 days
- 798 Fremitus can be best felt earliest during pregnancy in cattle
- a) 30-40 days
 - b) 40-60 days
 - c) 150-170 days
 - d) 90-120 days
- 799 Causative organism for contagious equine metritis
- a) Campylobacter fetus
 - b) Trypanosoma equiperdum
 - c) Herpes virus

- d) *Teylorella equigenitalis*
- 800 Abortion storm is a characteristic sign of
- Vibriosis
 - Trychomoniasis
 - Brucellosis
 - Leptospirosis
- 801 The location of seminal vesicles in the bovine is
- On the floor of pelvis
 - Caudal to the bladder, around the neck of bladder
 - On the either side of the pelvis urethra near ischiatic arch
 - None of the above
- 802 Head office of Directorate of Marketing and inspection is located at
- Delhi
 - Ahmedabad
 - Faridabad
 - Jaipur
- 803 CACP headquarter is located at
- Jaipur
 - Pune
 - Kolkata
 - Delhi
804. It is the sheep breed with high fecundity trait
- Nellore
 - Garole
 - Black Bengal
 - Nail
805. Ringing is the practice followed by sheep owner as
- Tied bell on neck
 - Pass through ring of grasses
 - Clipping of hair around neck
 - Clipping of hair around penis
806. Milling is the process of wool related to
- Removal of grease and dirt
 - Raises individual fibres on surface
 - Marking at brisket with colour
 - Process of removal of objectionable part
807. Low burr content (LB) is graded in wool at burr content level
- Below 2 %
 - Below 3 %
 - 3 to 6 %

- d. More than 6 %
808. Vautha fair is famous for trading of
- a. Horse
 - b. Cow
 - c. Camel
 - d. Donkey
809. It is the location where disowned and orphan animals are kept
- a. Animal pound
 - b. Gaushala
 - c. Panjarapole
 - d. None
810. India ranks total milk production in the world.
- a. Third
 - b. Second
 - c. Fifth
 - d. First
811. Gujarat has total breeds of buffaloes.
- a. Two
 - b. Four
 - c. Three
 - d. Six
812. First ring on a horn at the age in cattle.
- a. 2 years
 - b. 4 years
 - c. 3 years
 - d. 5 years
813. Principle object of running dairy farm.
- a. Meat production
 - b. Milk production
 - c. Sale of heifers
 - d. Fodder
814. Sahiwal cow is breed pertaining to the group.
- a. Milch
 - b. Dual
 - c. Draught
 - d. None
815. Calf starter is a feed for.
- a. Calf
 - b. Heifer

- c. Cow
 - d. Buffalo
816. Nose ring should be applied in bull at the age.
- a. 1.5 years
 - b. 2 years
 - c. 2.5 years
 - d. 3 years
817. Hormone responsible for letdown of milk.
- a. Oxytocin
 - b. Prolactin
 - c. Lactate
 - d. Hyluronidase
818. Dehorning is done in the calf at the age.
- a. 4-10 days
 - b. 10-20 days
 - c. 3 months
 - d. 6 months
819. Common chemical used for dehorning.
- a. Sodium bromide
 - b. Potassium iodide
 - c. Caustic potash
 - d. HCL
820. It is not a sexual behavior of bull.
- a. chin resting
 - b. libido
 - c. courtship
 - d. reactivity
821. Banas dairy is located at.
- a. Palanpur
 - b. Deesa
 - c. Bharuch
 - d. Mehsanas
822. Khillar is the breed found at.
- a. Gujarat
 - b. Andhrapradesh
 - c. Maharashtra
 - d. Karnataka
823. Calf starter is a feed
- a. liquid feed for calf

- b. liquid feed for heifer
 - c. solid feed for calf
 - d. solid feed for heifer
- 824) Calcium requirement in layer poultry per day is about
- a. 0.5 %
 - b. 1.5 %
 - c. 3.5 %
 - d. 10 %
- 825) Incubation period of chicken egg
- a. 19 days
 - b. 23 days
 - c. 21 days
 - d. 18 days
- 826) Nutritional rump in poultry is due to deficiency of
- a. Vit A
 - b. Vit B6
 - c. Vit K
 - d. Vit E
- 827) which of the fowl has a single medium wattle
- a. red jungle fowl
 - b. ceylon jungle fowl
 - c. grey jungle fowl
 - d. javan jungle fowl
- 828) The best breed for using as male line in broiler production is
- a. White rock
 - b. Cornish
 - c. New Hampshire
 - d. Australorp
- 829) White leghorn are white because
- a. No colour gene
 - b. A dominant gene which inhibits color
 - c. Recessive white gene
 - d. They have silver gene
- 830) The wildis the ancestor of all domestic duck breeds
- a. Mallard
 - b. Campbell
 - c. Red fowl
 - d. Both a & b

- 831) The black and white barring in barred Plymouth rock is due tobarring gene
- Sex linked gene
 - Sex limited gene
 - Sex influence gene
 - Dominant gene
- 832) The wildis the ancestor of all domestic duck breeds
- Mallard
 - Campbell
 - Red fowl
 - Both a & b
- 833) In a sex-linked cross involving barring, the female parent is a
- Barred Plymouth Rock
 - Non Barred Plymouth Rock
 - Both
 - None of above
- 834) In a sex-linked cross involving silver and gold, the silver gene carryingparent is used
- Male
 - Female
 - Both
 - None of above
- 835) In a sex-linked cross involving silver and gold, the gold gene carryingparent is used
- Male
 - Female
 - Both
 - None of above
- 836) In a sex-linked cross involving feathering gene, a late featheringparent is used
- Male
 - Female
 - Both
 - None of above
- 837) Which one is sex linked
- dwarfism
 - nakedness
 - Albinism
 - rapid feathering
- 838) Egg shell treatment is done to reduce the rate ofloss
- Oxygen loss

- b. Carbon dioxide loss
 - c. Both a and b
 - d. Energy loss
- 839) Shank length and width is a good indicator of
 - a. Egg production
 - b. Meat production
 - c. Skeleton size
 - d. Health of birds
- 840) Shank length and width is a good indicator of
 - a. Egg production
 - b. Meat production
 - c. Skeleton size
 - d. Health of birds
- 841) Poultry need one more essential aminoacidthan cattle
 - a. Lysine
 - b. Methionine
 - c. Glycine
 - d. Cysteine
- 842) Hens egg contains about.....grams of protein
 - a. 6-7
 - b. 12-13
 - c. 2-3
 - d. 21-22
- 843) A component of egg white having antibacterial activity
 - a. Lysozyme
 - b. Avidine
 - c. Transferrin
 - d. All of above
- 844) Host which provides a medium for larval or asexual phase of life cycle of an infectious agent.
 - a) Intermediate host
 - b) Final host
 - c) Obligatory host
 - d) None of the above
- 845) Zoonotic disease are perpetuated in nature by a single vertebrate species.
 - a) Cyclozoonosis
 - b) Direct zoonosis
 - c) metazoonosis
 - d) Amphizoonosis
- 846) These are the bacterial zoonosis.
 - a) brucellosis

- b) leptospirosis
 - c) listeriosis
 - d) all of the above
- 847 Yellow fever is transmitted by.
- a) Aedes aegypti
 - b) Argus
 - c) Ixodes
 - d) Simulium
- 848 Epidemic in bird population.
- a) Epizootic
 - b) Epidemic
 - c) Epornitics
 - d) all of the above
- 849 Zone comprises the ozone layer.
- a) Troposphere
 - b) stratosphere
 - c) mesosphere
 - d) thermosphere
- 850 Method of carcass disposal are
- a) cremation
 - b) burial
 - c) flamegium
 - d) incineration
- 851 The term refers to smoke mixed with dust
- a) smog
 - b) smust
 - c) soot
 - d) mist
- 852 Rotten egg odour in water is due to
- a) Hydrogen sulfide
 - b) Algae
 - c) Cyanide
 - d) Ammonia
853. Standard of ventilation
- a) cubic space
 - b) air space
 - c) floor space
 - d) all of the above
- 854 Type of transmission caused by physical contact.
- a) direct
 - b) indirect

- c)contact
d)vehicle.
- 855 Test use for diagnosis of brucellosis in cattle.
a) MRT
b) coagulation test
c)hensa test
d) gmelin test.
- 856 Yellow fever cause by which virus.
a)flavi virus
b)lyssa virus
c)hendra virus
d)picorna virus.
- 857 Constant present of a disease or organism in a community-
a)Epidemic
b)Sporadic
c)Endemic
d)Panzootic
- 858 Diseases transmitted from man to lower vertebrate animals called as
a) Zooanthropozoonosis
b)Anthropozoonosis
c) Amphixenosis
d)Sporozoonosis
- 859 Unit of radiation
a) Meds
b) Reds
c) calori
d)Joule
- 860 Who is the first chief of VPH in WHO?
a) Dr martin Kalpan
b)Dr Smith
c)Dr nayadu
d)Dr B B Jack
- 861 Test for residual chlorine
a)chlorine
b)florine
c)organoleptic
d)orthitolidine
- 862 The term reffered to mixture of smoke and fog
a) smog

- b) must
 - c) suture
 - d) mist
- 863 ozogase present in ozonlayer of stratosphere
- a) 0.5 to 1 mg/l
 - b) 0.2 to 0.3 mg/l
 - c) 4 to 5 mg/l
 - d) 2 to 3 mg/l
- 864 Tick paralysis is mainly caused by ticks belonging to
- a) *Hyalomma*
 - b) *Ixodes spp.*
 - c) *Boophilus spp.*
 - d) *Amblyomma spp.*
- 865 Accidental myiasis causing fly
- a) *Musca spp.*
 - b) *Chrysomia spp.*
 - c) *Calliphora spp.*
 - d) *Sarcophaga spp.*
- 866 'Flea collars' of dogs and cats are usually impregnated with
- a) BHC
 - b) DDT
 - c) Malathion
 - d) Dichloroanis
- 867 The condition 'butcher's jelly' is caused by the larvae of
- a) *Oestrus ovis*
 - b) *Gastrophilus intestinalis*
 - c) *Hypoderma lineatum*
 - d) *Callitroga hominivorax*
- 868 The two pairs of antennae are present in arthropods belonging to the class
- a) Arachnida
 - b) Crustacea
 - c) Insecta
 - d) Myriapoda
- 869 Formation of hairballs in the stomach of calves may occur due to
- a) Fly infestation
 - b) Lice infestation
 - c) By both of the above
 - d) None of the above
- 870 Which of the following is not a larviparous fly

- a) *Oestrus ovis*
 - b) *Sarcophaga dux*
 - c) *Pseudolynchia canariensis*
 - d) *Gastrophilus intestinalis*
- 871 The following is known as wing louse of poultry
- a) *Lipeurus caponis*
 - b) *Goniodes gigas*
 - c) *Menopon gallinae*
 - d) *Menacanthus stramineus*
- 872 The body of an arachnid is divided into two parts the anterior gnathosoma and posterior
- a) Podosoma
 - b) Idiosoma
 - c) Opisthosoma
 - d) Prosoma
- 873 A key role in the transmission of arthropod borne diseases is played by the
- a) Circulatory system
 - b) Excretory system
 - c) Respiratory system
 - d) Digestive system
- 874 Hexagonal discal cell is present in the wings of
- a) *Tabanus spp.*
 - b) *Stomoxys spp.*
 - c) *Phlebotomus spp.*
 - d) All the above
- 875 wool-staining in sheep is caused by
- a) *Oestrus ovis*
 - b) *Damalinia ovis*
 - c) *Melophagas ovinus*
 - d) None of the above
- 876 Brown-dog tick is
- a) *Rhipicephalus appendiculatus*
 - b) *Rhipicephalus sanguineus*
 - c) *Haemaphysalis leachi*
 - d) None of the above
- 877 'Gavac' vaccine is used against
- a) *Hyalomma anatolicum*
 - b) *Dermacentor andersoni*
 - c) *Haemaphysalis leachi*
 - d) *Boophilus microplus*

- 878 'Sweet itch' in horses is caused by
a) *Simulium indicum*
b) *Phlebotomus sergenti*
c) *Culicoides robertsi*
d) *Climex lecturalius*
- 879 How are hosts affected directly by arthropods?
a) Infestation
b) Bites
c) Anaphylactic shock
d) All of the above
- 880 The term 'entomophobia' means
a) A fear of insects
b) The science of insect classification
c) The study of insects
d) The study of insect behaviour
- 881 Which of the insects listed below could cause myiasis?
a) Dragon fly
b) Flea
c) Screwworm fly
d) Mite
- 882 In insects, the body part which acts as a protective structure and which provides for the attachment of muscles is known as the
a) Endoskeleton
b) Sclerites
c) Abdomon
d) Exoskeleton
- 883 Insects which possess sponging mouth parts and do not bite are
a) House flies
b) Fleas
c) Mosquitoes
d) Deer flies
- 884 Which of the following is not correctly matched-?
(A) Zn deficiency-Pig
(B) Epidemic tremor-Virus
(C) Siderosis-silica dust
(D) Alkali disease-Se

- 885 Pachymeningitis is inflammation of-
(A) Pia mater
(B) Brain
(C) Dura mater
(D) Spinal cord
- 886 Liquifactive necrosis is most commonly seen in-
(A) Kidney
(B) Liver
(C) Heart
(D) Brain
- 887 Which of the following is correctly matched-?
(A) Picorna virus-Ranikhet disease
(B) Lumpy skin disease- Pox virus
(C) Diamond skin disease-Herpes virus
(D) Paramyxovirus-FMD
- 888 Enlargement of Sciatic nerve is seen in-
(A) Ranikhet disease
(B) Marek's disease
(C) Chronic respiratory disease
(D) Infectious Coryza
- 889 Apennosis is-
(A) Intracellular edema of epidermis
(B) Congenital lack of feathers in fowl
(C) Absence of pineal gland
(D) Lack of cell differentiation during embryogenesis
- 890 Which is incorrect about avian tuberculosis-?
(A) Calcification absent
(B) Liver and bones are most commonly affected
(C) Lungs are most commonly affected
(D) Intradermal test is performed on wattle.
- 891 Post mortem of cattle reveals too much emaciated carcass, mucosa of intestine thrown into corrugated folds, most probable cause will be-
(A) Rinder pest
(B) Johne's disease
(C) Tuberculosis
(D) Pasterellosis.
- 892 Spondylitis is inflammation of-
(A) Prepuce
(B) Vertebrae
(C) Bone
(D) Spermatic cord
- 893 Which of the following is correct regarding poultry diseases-?

- (A) In pullorum disease, green constant diarrhea is seen
(B) Face is swollen and edematous in Haemophilus infection
(C) Bloody mucous expelled from trachea in Infectious Bronchitis
(D) In pullorum disease, nervous signs are seen along with diarrhoea
- 894 In which outbreak at poultry farm maximum mortality of birds will be expected?
(A) Ranikhet disease
(B) Infectious Bronchitis
(C) Infectious Laryngotracheitis
(D) Avian Encephalomyelitis
- 895 Dohle's bodies are toxic granules of-
(A) Macrophages
(B) Eosinophils
(C) Neutrophils
(D) Lymphocytes
- 896 East coast fever is caused by-
(A) *Theileria parva*
(B) *Theileria annulata*
(C) *Babesia bovis*
(D) *Anaplasma centrale*
- 897 Edema consisting of gelatinous material in neck and brisket region seen in cattle in-
(A) Black Quarter
(B) Degenerative disease
(C) Botulism
(D) Haemorrhagic Septicemia
- 898 Which is the main chemical mediator of inflammation-?
(A) Serotonin
(B) Bradykinin
(C) Histamine
(D) Interleukin-1
- 899 Big liver disease is also known as-
(A) IBD
(B) CRD
(C) Fowl cholera
(D) Fowl typhoid
- 900 In Angara disease, the pathological finding is-
(A) Haemopericardium
(B) Hydropericardium
(C) Myocarditis
(D) Pneumopericardium

- 901 In Left side heart failure, the heart failure cells are seen in-
(A) Lungs
(B) Heart
(C) Kidney
(D) Spleen
- 902 Sway back condition is seen due to deficiency of-
(A) Cu
(B) Co
(C) Mn
(D) Se
- 903 Most pathogenic species/disease affecting Snakes-
(A) Pasteurellosis
(B) Histomoniasis
(C) Salmonellosis
(D) Listeriosis.
- 904 Abnormal large amount of granulation tissue is known as
a. Proud flesh
b. Callus
c. Adenoma
d. Wound
- 905 Who introduced the basic principles of surgery
a. W. S. Halsted
b. Joseph Lister
c. W. T. G. Morten
d. Michal Harward
- 906 Gangrene occurs most commonly in buffaloes at
a. Udder
b. Ear pinna
c. Tail
d. All of above
- 907 Perineal hernia is common in
a. Mares
b. Castrated dogs
c. Spayed bitches
d. Adult uncastrated dogs
- 908 Peterson's block is practiced to anaesthetize
a. Teeth
b. Eye
c. Flank
d. Limb
- 909 If the content of hernia is urinary bladder, then it is termed as

- a. Enterocoele
 - b. Epiplocele
 - c. Vesicocoele
 - d. Hysterocele
- 910 Radical surgery is done to
- a. Conserve damaged tissue
 - b. Remove damaged tissue
 - c. Eliminate root cause
 - d. Correct malformations
- 911 Preanesthetic medication is employed to make
- a. Induction of anaesthesia smooth
 - b. Recovery complication minimum
 - c. Animal more controllable
 - d. All of above
- 912 Reaction of living tissue to injury is known as
- a. Infection
 - b. Inflammation
 - c. Infestation
 - d. Sarcoma
- 913 Irreducibility of hernia is due to
- a. Adhesion
 - b. Strangulation
 - c. Incarceration
 - d. All of above
- 914 One of the following is the congenital defect of eye
- a. Dermoid cyst
 - b. Hypopia
 - c. Exophthalmos
 - d. Corneal ulcer
- 915 Exposure factor for taking radiograph is
- a. mA
 - b. kVp
 - c. Second
 - d. All of above
- 916 Amputation of horn can be done under
- a. Cornual nerve block
 - b. Caudal epidural
 - c. Anterior epidural
 - d. Retrobulbar nerve block

- 917 Adhesion of iris to cornea is known as
- Anterior synechia
 - Posterior synechia
 - Epiphora
 - Chemosis
- 918 Surgical operation for providing drainage from middle ear is known as
- Zepps' operation
 - Bulla osteotomy
 - Hyovertebrotomy
 - Ventriculectomy
- 919 FFD for taking diagnostic radiography should be
- Minimum
 - 90 cm
 - 36 inch
 - Maximum
- 920 Reflecting layer is present in
- X-ray film
 - X-ray tube
 - Intensifying screen
 - All the above
- 921 Frequency mainly used for the purpose of diagnostic ultrasound
- 1 to 10 MHz
 - More than 50 MHz
 - Less than 20000Hz
 - None of the above
- 922 Barium sulphate is exclusively used for
- Outlining alimentary tract
 - Outlining urinary tract
 - Outlining spinal canal
 - Outlining abdominal cavity
- 923 Reducing agent used in x-ray developer
- Metol
 - Sodium carbonate
 - Potassium bromide
 - Sodium sulphite
- 924 Cells found in the choroid plexus that secrete cerebrospinal fluid are:
- Astrocytes
 - Microglia
 - Ependymal cells

- d. Oligodendrocytes
- 925 Action potentials are conducted more rapidly in:
 - a. Small diameter axons than large diameter axons
 - b. Large diameter axons than small diameter axons
 - c. Unmyelinated axons than myelinated axons
 - d. Axons that lack a wrapping of Schwann cells
- 926 Neurotransmitters are stored in vesicles that are located primarily in specialized portions of the:
 - a. Soma
 - b. Axon
 - c. Dendrite
 - d. Perikaryon
- 927 Which of the following organelles is responsible for the appearance of Nissl bodies in the cell bodies of motor neurons?
 - a. Smooth endoplasmic reticulum
 - b. Rough endoplasmic reticulum
 - c. Golgi apparatus
 - d. Mitochondria
- 928 Which of the following structures is a component of a reflex arc?
 - a. Afferent neuron
 - b. Efferent neuron
 - c. Effector organ
 - d. All of the above
- 929 The testosterone-producing cells of the testes are called:
 - a. Sertoli cells
 - b. Granulosa cells
 - c. Spermatogonia
 - d. Leydig cells
- 930 An oocyte surrounded by one layer of squamous follicle-like cells is most likely a:
 - a. Primordial follicle
 - b. Primary follicle
 - c. Secondary follicle
 - d. Graafian follicle
- 931 Podocytes make up the:
 - a. Visceral layer of the nephron
 - b. Visceral layer of the glomerulus
 - c. Visceral layer of the renal capsule
 - d. Visceral layer of the Bowman's Capsule
- 932 Glucose is:
 - a. Filtered, reabsorbed, and secreted
 - b. Filtered, and reabsorbed, but not secreted

- c. Filtered, and secreted, but not reabsorbed
 - d. Filtered, and neither secreted nor reabsorbed
- 933 While the kidneys process about 180L of blood-derived fluids per day, the amount that actually leaves the body is:
- a. 50%, or 90L
 - b. 100%, or 180L
 - c. 10%, or 18L
 - d. 1%, or 1.8L
- 934 The fluid in the capsular space is similar to plasma except that it does not contain a significant amount of:
- a. Glucose
 - b. Sodium
 - c. H^+
 - d. Albumin
- 935 Aldosterone causes:
- a. Decreased K^+ in the urine
 - b. Increased Na^+ in the urine
 - c. Increased urine output
 - d. Decreased urine output
- 936 Which of the following is not one of the 3 external coverings of the kidney?
- a. Renal capsule
 - b. Adipose capsule
 - c. Renal fascia
 - d. Renal adventitia
- 937 The addition of a strong acid to the extracellular fluid would result in the increased formation of:
- a. $NaHCO_3^-$
 - b. H_2CO_3
 - c. OH^-
 - d. All of the above
- 938 Severe vomiting can result in:
- a. Septic shock
 - b. Anaphylactic shock
 - c. Hypovolemic shock
 - d. All of the above
- 939 A patient with a hypothalamic tumor has hypersecretion of ADH. Which of the following BP readings would be most likely for this patient?
- a. 95/65
 - b. 115/80
 - c. 120/60
 - d. 165/100

- 940) The space in the middle of the thoracic cavity where the heart resides is the:
- a. pericardial cavity
 - b. pericardium
 - c. pleural cavity
 - d) mediastinum
- 941) Blood returning from the lungs enters the heart through the:
- a. pulmonary semilunar valve
 - b. mitral valve
 - c. right ventricle
 - d. left atrium
- 942) The precursor of ketone body is
- a. Acetyl CoA
 - b. Acetoacetic acid
 - c. Betahydroxybutyric acid
 - d. Cholesterol
- 943) For intravenous (IV) dosages, what is the bioavailability assumed to be?
- a) 0%
 - b) 25%
 - c) 75%
 - d) 100%
- 944) Which of the following is NOT a pharmacokinetic process?
- a) Alteration of the drug by liver enzymes
 - b) Drug metabolites are removed in the urine
 - c) Movement of drug from the gut into general circulation
 - d) The drug causes dilation of coronary vessels
- 945) Which of the following has no side effects?
- a) Paracetamol
 - b) Aspirin
 - c) Meloxicam
 - d) None of above
- 946) Most drugs are either ____ acids or ____ bases.
- a) Strong; Strong
 - b) Strong; Weak
 - c) Weak; Weak
 - d) All of above
- 947) Which of the following enteral administration routes has the largest first-pass effect?
- a) SL (sublingual)
 - b) Buccal
 - c) Rectal

- d) Oral
- 948) Which of the following would receive drug slowly?
- a) Liver
 - b) Brain
 - c) Fat
 - d) Muscle
- 949) Pharmacokinetics is the effect of the ____ and Pharmacodynamics is the effect of the ____.
- a) Drug on a drug; Body on the drug
 - b) Body on the drug; Drug on a drug
 - c) Drug on the body; Body on the drug
 - d) Body on the drug; Drug on the body
- 950) Which of the following is NOT an action of the body on a drug?
- a) Absorption
 - b) Distribution
 - c) Metabolism
 - d) Side effects
- 951) Which of the following is the amount of a drug absorbed per amount administered?
- a) Bioavailability
 - b) Bioequivalence
 - c) Drug absorption
 - d) All of above
- 952) What type of drugs can cross the blood-brain barrier (BBB)?
- a) Large and lipid-soluble
 - b) Large and lipid-insoluble
 - c) Small and lipid-soluble
 - d) Small and lipid-insoluble
- 953) Which of the following is NOT a phase II substrate?
- a) Glucuronic acid
 - b) Sulfuric acid
 - c) Acetic acid
 - d) Amino acids
- 954) Which of the following reactions is phase II and NOT phase I?
- a) Oxidations
 - b) Reductions
 - c) Conjugations
 - d) Deaminations
- 955) What is the goal of the Cytochrome-P450 system?
- a) Metabolism of substances

- b) Detoxification of substances
 - c) Decreasing pH of compartments containing substances
 - d) A & B
- 956) Weak acids are excreted faster in ____ urine and weak bases are excreted faster in ____ urine.
- a) Acidic; Alkaline
 - b) Alkaline; Acidic
 - c) Acidic; Neutral
 - d) Alkaline; Neutral
- 957) Which organ is responsible for metabolism in the “first pass effect”?
- a) Brain
 - b) Heart
 - c) Kidney
 - d) Liver
- 958) What determines the degree of movement of a drug between body compartments?
- a) Partition constant
 - b) Degree of ionization
 - c) Size
 - d) All of the above
- 959) Following is responsible for agglutination of RBC in animal body.
- a) Abrin
 - b) Ricin
 - c) Renin
 - d) Thiamine
- 960) Bovine Bunker is synonym to
- a) Urea toxicity
 - b) Salt toxicity
 - c) Oxalates toxicity
 - d) Selenium toxicity
- 961) Severe and acute pneumonia (Drowning syndrome) indicates probability of poisoning due to
- a) ANTU
 - b) OCTP
 - c) MB
 - d) OP
- 962) All of following except one is not used for doping in animal
- a) Furasemide
 - b) Phenylbutazone
 - c) Steroids
 - d) Adrenaline
963. The dry matter requirement of goat is
- a. 2 – 3 %
 - b. 6 – 8 %
 - c. 4 -5 %

10 %

964. Nagler's reaction with *Cl.perfringens* on egg yolk agar is due to
- Haemolysin
 - Hyaluronidase
 - Lecithinase
 - Leucocidin
965. Cytochemically Rickettsia are
- Weak gram positive
 - weak gram negative
 - Acid fast
 - None
966. Corynebacteria can be characterized as
- Non motile, non sporing, aerobic, gram positive bacilli
 - Motile, non sporing, aerobic, Gram positive bacilli
 - Motile, sporing, aerobic, Gram positive bacilli
 - Non motile, sporing, anaerobic, Gram positive bacilli
967. The cells parasitized in host by Rickettsia are
- Erythrocytes
 - Vascular endothelial cells
 - Neutrophils
 - Monocytes
968. Dimorphic fungi produces
- Mold type growth at 37⁰ C
 - Yeast type growth at 22⁰ C
 - Mold type growth at 37⁰ C and Yeast type growth at 22⁰ C.
 - Yeast type growth at 37⁰ C.and mold type growth at 22⁰ C
969. The organism present in high concentration in pigeon droppings is
- Candida albicans*
 - Cryptococcus neoformans*
 - Rhinosporidium seeberi*
 - Aspergillus flavus*
970. Which of the following is incorrect match.
- Diene's stain: Mycoplasma
 - Fontana stain: Spirochaetes
 - Machiavello stain: Chlamydia
 - Acid fast stain: *Staphylococci*

971. Strauss reaction is positive for
- Brucella abortus*
 - Pseudomonas mallei*
 - Actinobacillus ligneresii*
 - All of above
972. The Weil-Felix test is an agglutination reaction between.
- Antibody against Rickettsia and antigen from *Pseudomonas*
 - Antibody against Rickettsia and antigen from Staphylococci.
 - Antibody against Rickettsia and antigen from *Brucella*.
 - Antibody against Rickettsia and antigen from *Proteus*.
973. IMViC pattern of *Salmonella* is
- ++--
 - +-+-
 - ++
 - +-+
974. Virus having criss cross pattern on its surface is
- Contagious pustular dermatitis virus
 - Fowl pox virus
 - Adeno virus
 - Parvo virus
975. Virus having cyclic DNA is
- Papova virus
 - Parvovirus
 - Pestivirus
 - Poxvirus
976. Diploid genome is the characteristic of virus family
- Retroviridae
 - Rhabdoviridae
 - Reoviridae
 - None of these
977. Bovine viral diarrhea virus belongs to family
- Togaviridae
 - Reoviridae
 - Herpes viridae
 - Flaviviridae
978. Which animal is not susceptible to vesicular exanthema virus.
- Pig
 - Horse
 - Cow
 - All of above

979. Samples suspected for Pox virus are inoculated in embryonated eggs by the route of
- Allantoic cavity
 - Amniotic cavity
 - CAM
 - Yolk sac
980. Bovine ephemeral fever virus belongs to the family
- Herpes viridae
 - Rhabdoviridae
 - Reoviridae
 - Togaviridae
981. EDS-76 is
- Herpes virus
 - Corona virus
 - Adenovirus
 - Poxvirus
982. Paired serum samples means
- Serum sample collected at two different stages of a disease from an animal
 - From two different animals.
 - Samples divided in two aliquots.
 - Samples collected from two parents.
- f. Newcastle disease virus infection in human can cause
- Generalized infection
 - Contagious respiratory infection.
 - Contigious conjunctivitis and mild influenza like symptoms
 - Encephalitis
983. Which of the following showing buoyant density of DNA, RNA and Protein is correct:
- RNA>DNA>Protein
 - Protein>RNA>DNA
 - DNA> RNA>Protein
 - Protein>DNA>RNA
984. Intercalation of ethidium bromide (etBr) in DNA molecule will:
- Increase the buoyant density of DNA molecule
 - Decreases the buoyant density of DNA molecule
 - Does not affect the buoyant density of DNA molecule
 - None of the above
985. Exonucleases:
- Removes nucleotides one at a time from the end of DNA molecule
 - Break internal phospho-diester bonds within DNA molecule
 - Removes nucleotides only in 3'-5' direction

- d. Removes nucleotides only in 5'-3' direction
986. Endonucleases:
- Removes nt one at a time from the end of DNA molecule
 - Break internal phospho-diester bonds within DNA molecule
 - Removes nts only in 3'-5' direction
 - Removes nts only in 5'-3' direction
987. The enzyme used to remove phosphate group at the 5' end of DNA molecule is:
- Alkaline phosphatase
 - Polynucleotide kinase
 - Terminal deoxytransferase
 - Topoisomerase
988. The enzyme used to add phosphate group at the free 5' end of DNA molecule is:
- Alkaline phosphatase
 - Polynucleotide kinase
 - Terminal deoxytransferase
 - Topoisomerase
989. The enzyme that changes the conformation of covalently closed circular DNA by introducing or removing supercoils is:
- Alkaline phosphatase
 - Polynucleotide kinase
 - Terminal deoxytransferase
 - Topoisomerase
990. *Eco* RI produces:
- Blunt end
 - Sticky end
 - Both
 - None
991. The specific position on a DNA molecule where DNA replication begins is called:
- Replication fork
 - Origin of replication
 - Start Point of replication
 - None of the above
992. An algorithm used to search homology is:
- BLAST
 - CLAST
 - PUBSCAN
 - HOMOSCAN
993. The fact that not all codons are used equal frequency in the genes of a particular organism is called:
- Codon preference
 - Codon bias
 - Codon choice

- d. None of the above
- 994. A technique that can be used to construct a clone contig by identifying overlapping fragments of cloned DNA:
 - a. Gene walking
 - b. Chromosome walking
 - c. Clone fingerprinting
 - d. None of the above
- 995. The ability of two different types of plasmid to co-exist in same cell is called:
 - a. Competence
 - b. Compatibility
 - c. Interference
 - d. None of the above
- 996. The non coding sequence within genes that do not translate into protein is:
 - a. Intron
 - b. Exon
 - c. Transposons
 - d. None of the above
- 997. The coding sequence within genes that translate into protein is:
 - a. Intron
 - b. Exon
 - c. Transposons
 - d. None of the above
- 998. The process of modification of RNA after transcription in which introns are removed and exons are joined is called:
 - a. Splicing
 - b. Recombination
 - c. Translocation
 - d. Assortment
- 999. A relatively short fragments of DNA synthesized on the lagging strand during DNA replication is called:
 - a. Primer
 - b. Okazaki fragment
 - c. Klenow fragment
 - d. None of the above
- 1000. Which of the following is not a stop codon:
 - a. AUG
 - b. UAA
 - c. UGA
 - d. UAG
- 1001. Which of the following is a start codon:
 - a. AUG
 - b. GUG
 - c. Both

d. None

1002. Which of the following is incorrect about genetic code:

- a. It is non overlapping
- b. It is redundant
- c. It is ambiguous
- d. None of the above

ANSWER KEY

Sr. No	Answer	Sr. No	Answer	Sr. No	Answer	Sr. No	Answer	Sr. No	Answer
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1.	a	46	b	91	c	136	b	181	a
2.	d	47	b	92	c	137	b	182	c
3.	b	48	a	93	b	138	a	183	d
4.	d	49	a	94	c	139	b	184	b
5.	B	50	c	95	a	140	b	185	d
6.	C	51	b	96	a	141	b	186	a
7.	d	52	b	97	c	142	a	187	c
8.	b	53	b	98	a	143	b	188	a
9.	a	54	c	99	a	144	b	189	c
10.	b	55	c	100	a	145	b	190	a
11.	b	56	b	101	c	146	a	191	a
12.	a	57	c	102	a	147	a	192	c
13.	c	58	d	103	b	148	a	193	b
14.	a	59	c	104	b	149	a	194	b
15.	a	60	a	105	a	150	a	195	b
16.	a	61	d	106	b	151	b	196	d
17.	b	62	a	107	a	152	d	197	b
18.	c	63	a	108	a	153	c	198	c
19.	a	64	c	109	c	154	b	199	a
20.	d	65	d	110	b	155	b	200	c
21.	c	66	d	111	d	156	b	201	a
22.	c	67	a	112	b	157	b	202	c
23.	c	68	d	113	b	158	a	203	c
24.	c	69	a	114	a	159	c	204	c
25.	b	70	a	115	a	160	d	205	c
26.	a	71	c	116	a	161	b	206	b
27.	c	72	a	117	b	162	c	207	a
28.	a	73	d	118	a	163	d	208	b
29.	c	74	c	119	c	164	a	209	a
30.	d	75	a	120	d	165	b	210	a
31.	c	76	c	121	b	166	c	211	a
32.	d	77	d	122	b	167	d	212	b
33.	b	78	a	123	a	168	a	213	c
34.	c	79	c	124	b	169	c	214	a
35.	d	80	d	125	a	170	b	215	d
36.	b	81	b	126	d	171	b	216	d
37.	a	82	a	127	a	172	a	217	d
38.	a	83	d	128	a	173	c	218	c
39.	b	84	a	129	a	174	b	219	a
40.	a	85	a	130	b	175	a	220	a
41.	d	86	c	131	a	176	c	221	a
42.	b	87	c	132	a	177	b	222	c
43.	c	88	a	133	a	178	d	223	a
44.	a	89	c	134	a	179	c	224	b
45.	b	90	a	135	b	180	c	225	B
Sr. No	Answer	Sr. No	Answer	Sr. No	Answer	Sr. No	Answer	Sr. No	Answer
226	c	271	b	316	a	361	a	406	B

227	c	272	a	317	c	362	d	407	A
228	b	273	d	318	c	363	a	408	B
229	b	274	a	319	c	364	b	409	A
230	a	275	a	320	a	365	b	410	b
231	a	276	a	321	a	366	d	411	b
232	c	277	b	322	a	367	c	412	a
233	a	278	a	323	c	368	a	413	a
234	b	279	c	324	b	369	b	414	b
235	a	280	b	325	d	370	c	415	a
236	b	281	c	326	b	371	c	416	b
237	c	282	c	327	c	372	d	417	d
238	c	283	b	328	d	373	c	418	b
239	d	284	c	329	a	374	c	419	a
240	d	285	b	330	c	375	d	420	d
241	b	286	d	331	d	376	b	421	d
242	d	287	b	332	d	377	a	422	c
243	d	288	a	333	c	378	c	423	d
244	c	289	b	334	a	379	C	424	b
245	a	290	b	335	d	380	D	425	b
246	d	291	c	336	d	381	C	426	d
247	c	292	a	337	a	382	B	427	b
248	d	293	a	338	d	383	a	428	a
249	d	294	a	339	a	384	b	429	d
250	a	295	a	340	b	385	A	430	b
251	a	296	c	341	b	386	A	431	b
252	c	297	b	342	d	387	B	432	a
253	c	298	a	343	c	388	C	433	b
254	c	299	b	344	c	389	B	434	d
255	d	300	a	345	d	390	B	435	b
256	a	301	a	346	b	391	B	436	b
257	b	302	a	347	a	392	C	437	c
258	b	303	c	348	d	393	B	438	a
259	b	304	c	349	b	394	C	439	b
260	d	305	a	350	a	395	D	440	b
261	b	306	b	351	a	396	D	441	c
262	b	307	d	352	c	397	B	442	b
263	c	308	d	353	d	398	C	443	a
264	a	309	a	354	a	399	B	444	c
265	d	310	b	355	a	400	B	445	b
266	b	311	b	356	b	401	B	446	a
267	d	312	a	357	c	402	B	447	a
268	a	313	a	358	d	403	A	448	a
269	a	314	b	359	a	404	B	449	d
270	b	315	a	360	d	405	A	450	D
Sr. No	Answer	Sr. No	Answer	Sr. No	Answer	Sr. No	Answer	Sr. No	Answer

451	c	496	d	541	c	586	a	631	b
452	a	497	b	542	a	587	c	632	c
453	b	498	a	543	a	588	a	633	c
454	a	499	b	544	b	589	a	634	c
455	a	500	a	545	a	590	b	635	d
456	a	501	B	546	b	591	b	636	c
457	c	502	C	547	b	592	d	637	a
458	b	503	B	548	b	593	b	638	c
459	c	504	A	549	b	594	c	639	b
460	a	505	D	550	d	595	c	640	b
461	c	506	D	551	b	596	a	641	b
462	d	507	A	552	c	597	a	642	a
463	a	508	A	553	a	598	b	643	c
464	c	509	B	554	a	599	c	644	c
465	d	510	A	555	d	600	d	645	b
466	b	511	b	556	c	601	b	646	b
467	b	512	a	557	c	602	b	647	a
468	a	513	b	558	b	603	c	648	c
469	c	514	c	559	a	604	c	649	b
470	b	515	a	560	b	605	c	650	b
471	b	516	a	561	b	606	b	651	a
472	d	517	a	562	d	607	b	652	a
473	b	518	a	563	b	608	c	653	c
474	b	519	c	564	c	609	c	654	b
475	a	520	c	565	b	610	b	655	d
476	c	521	a	566	b	611	c	656	c
477	d	522	d	567	b	612	b	657	b
478	d	523	a	568	c	613	d	658	b
479	a	524	b	569	b	614	b	659	c
480	a	525	c	570	c	615	a	660	d
481	d	526	b	571	c	616	a	661	d
482	d	527	a	572	a	617	b	662	b
483	b	528	b	573	a	618	a	663	b
484	d	529	d	574	c	619	b	664	c
485	a	530	a	575	a	620	d	665	c
486	d	531	b	576	b	621	d	666	a
487	b	532	d	577	b	622	d	667	b
488	d	533	a	578	c	623	c	668	a
489	d	534	c	579	a	624	b	669	b
490	d	535	c	580	c	625	a	670	b
491	a	536	a	581	a	626	c	671	c
492	b	537	a	582	a	627	d	672	d
493	c	538	b	583	b	628	d	673	c
494	a	539	a	584	b	629	d	674	a
495	d	540	c	585	c	630	a	675	A
Sr.	Answe	Sr.	Answe	Sr.	Answer	Sr. No	Answer	Sr. No	Answer

No	r	No	r	No					
676	d	721	a	766	a	811	b	856	a
677	c	722	b	767	d	812	c	857	c
678	c	723	a	768	c	813	b	858	a
679	b	724	d	769	b	814	a	859	b
680	c	725	c	770	b	815	a	860	a
681	c	726	a	771	a	816	b	861	d
682	a	727	b	772	d	817	a	862	a
683	c	728	b	773	a	818	a	863	d
684	a	729	d	774	c	819	d	864	b
685	c	730	c	775	a	820	d	865	a
686	b	731	a	776	c	821	a	866	d
687	a	732	b	777	c	822	d	867	c
688	a	733	b	778	a	823	a	868	b
689	c	734	d	779	b	824	c	869	b
690	b	735	b	780	d	825	c	870	d
691	c	736	a	781	a	826	a	871	a
692	a	737	d	782	b	827	d	872	b
693	d	738	c	783	c	828	b	873	d
694	c	739	d	784	d	829	b	974	a
695	a	740	a	785	d	830	a	875	c
696	a	741	d	786	b	831	a	876	b
697	a	742	b	787	c	832	a	877	d
698	a	743	c	788	b	833	a	878	c
699	d	744	b	789	c	834	b	879	d
700	b	745	d	790	b	835	a	880	a
701	b	746	c	791	d	836	b	881	c
702	a	747	a	792	c	837	d	882	d
703	a	748	b	793	b	838	b	883	a
704	c	749	a	794	a	839	c	884	c
705	b	750	c	795	c	840	c	885	c
706	d	751	a	796	b	841	c	886	d
707	b	752	d	797	a	842	a	887	b
708	b	753	b	798	d	843	a	888	b
709	b	754	b	799	d	844	a	889	b
710	d	755	a	800	c	845	b	890	c
711	a	756	b	801	b	846	d	891	b
712	a	757	c	802	c	847	a	892	b
713	c	758	c	803	d	848	c	893	b
714	b	759	b	804	b	849	b	894	c
715	a	760	a	805	d	850	b	895	c
716	b	761	b	806	b	851	b	896	a
717	a	762	b	807	b	852	a	897	d
718	a	763	b	808	d	853	d	898	c
719	a	764	b	809	c	854	c	899	a
720	b	765	a	810	d	855	a	900	B

Sr. No	Answer	Sr. No	Answer	Sr. No	Answer	Sr. No	Answer	Sr. No	Answer
901	A	946	C	991	b				
902	A	947	D	992	a				
903	C	948	C	993	b				
904	A	949	D	994	b				
905	A	950	D	995	b				
906	C	951	A	996	a				
907	D	952	C	997	b				
908	B	953	D	998	a				
909	C	954	C	999	b				
910	C	955	D	1000	a				
911	D	956	B	1001	c				
912	B	957	D	1002	c				
913	D	958	D						
914	A	959	B						
915	D	960	a						
916	A	961	A						
917	A	962	D						
918	B	963	B						
919	B	964	C						
920	C	965	B						
921	C	966	A						
922	A	967	B						
923	A	968	D						
924	C	969	B						
925	B	970	D						
926	B	971	D						
927	B	972	D						
928	d	973	D						
929	D	974	A						
930	A	975	A						
931	d	976	A						
932	b	977	D						
933	D	978	B						
934	D	979	C						
935	D	980	B						
936	d	981	C						
937	B	982	A						
938	C	983	a						
939	D	984	b						
940	D	985	a						
941	D	986	b						
942	D	987	a						
943	D	988	b						
944	D	989	d						
945	d	990	b						

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