

Subject: Veterinary Epidemiology

1. Which of the following STAT titre is considered positive for brucellosis in cattle and buffaloes
 - a. 1:20 (40 IU)
 - b. 1:40 (80 IU)
 - c. 1:80 (160 IU)
 - d. 1:160 (320 IU)
2. Darling's disease is caused by
 - a. *Cryptococcus*
 - b. *Histoplasma*
 - c. *Blastomycosis*
 - d. *Candida*
3. Hendra and Nipah viruses belong to the family
 - a. *Paramyxoviridae*
 - b. *Orthomyxoviridae*
 - c. *Picornaviridae*
 - d. *Flaviviridae*
4. Bio safety level 3 is required for all diseases except
 - a. Q – fever
 - b. Tuberculosis
 - c. St. Louis encephalitis
 - d. Avian Influenza
5. All of the following are caused by prions except
 - a. Creutzfeldt-Jakob disease
 - b. Sheep scrapie
 - c. Kuru
 - d. Rat bite fever
6. "World Health day" is celebrated every year on
 - a. April 7
 - b. April 11
 - c. April 17
 - d. April 27
7. Kanagawa Reaction is most widely used *in vitro* test for assessing virulence status of
 - a. *Salmonella typhi*
 - b. Enteropathogenic *E. coli*
 - c. *Campylobacter*
 - d. *Vibrio parahaemolyticus*
8. Miescher's tubules in muscles are associated with
 - a. Diphyllbothriasis
 - b. Sarcocystosis
 - c. Visceral larva migrans
 - d. Cutaneous larva migrans

9. Which of the following mould commonly produces black spot on frozen mutton
- Fusarium*
 - Geotrichum*
 - Penicillium*
 - Cladosporium*
10. The minimum standard for processing of low- and medium-acid foods recognized by reputable canners ensures the destruction of spores of
- Cl. perfringens*
 - Cl. botulinum*
 - B. Cereus*
 - Cl. welchi*
11. The 'fire brigade' approach of veterinarian focuses on
- Treatment of sick animal
 - Prevention of disease in population
 - Economic evaluation of diseases
 - Herd health and productivity schemes
12. Collection of living organisms in a biotope is called as
- Niche
 - Biome
 - Biocenosis
 - Bienert body
13. A modified patch of vegetation, created by man, within a biome that has reached a climax is
- Ecological proclimax
 - Ecological mosaic
 - Ecosystem
 - Ecological interface
14. Koch's postulates are not applicable to which of the following
- Ebola disease
 - Mastitis
 - Colibacillosis
 - Salmonellosis
15. Which three parameters does the Reed-Frost Model use?
- Time, place and person
 - Agent, host and environment
 - Susceptible, infected, and immunes
 - Resistant, infect and immune
16. Argyrosis is caused due to inhalation of
- Silver containing dust
 - Iron containing dust
 - Coal particles
 - Cementparticles

17. Adventitious bacteria in water are
- Natural habitant of water
 - Pathogenic in nature
 - Non pathogenic in nature
 - Multiply at 22°C
18. According to WHO for drinking water Coliform count per 100 ml should be
- Zero
 - 05
 - 10
 - 15
19. The disinfecting action of chlorine in water is mainly due to formation of
- HCl
 - HOCl
 - OCI⁻
 - H⁺
20. National Environmental Engineering Research Institute (NEERI) is located at
- Nagpur
 - New Delhi
 - Chandigarh
 - Hyderabad
21. INFOSAN stands for
- Indian Food Safety Authorities Network
 - International Food Safety Authorities Network
 - Institute for Food Safety Authorities Network
 - Indonesian Food Safety Authorities Network
22. Which of the following test is used to detect adulteration of milk with glucose
- Barfoed test
 - Iodine test
 - Rosalic acid test
 - Picric acid test
23. Which of the following test is used to detect adulteration of fresh milk with heated milk
- Barfoed test
 - Hansa test
 - Baudoin test
 - Storch test/Guaicol test
24. As per the condition of license under FSS Regulations 2011, every food business operator (FBO) applying for licensing must have a documented Food Safety Management System (FSMS) plan and must comply with
- Schedule 4
 - Schedule 3
 - Schedule 2
 - Schedule 1

25. Recently in India the Ministry of Health prohibiting the “manufacture, sale and distribution of the which drug and its formulations for food-producing animals, poultry, aqua farming and animal feed supplements
- Colistin
 - Ampicillin
 - Tetracycline
 - Chloramphenicol
26. The What, Who, When, and Where i.e. distribution of health-related events is explained by
- Analytical epidemiology
 - Theoretical epidemiology
 - Applied epidemiology
 - Descriptive epidemiology
27. An area that has ecological, social and environmental conditions that can support a disease is
- Nosogenic territory
 - Noso area
 - Nidi
 - Ecological interface
28. Causal association between infectious/non-infectious diseases and hypothesized causal factor consistent with modern concepts are famously known as
- Koch’s postulates
 - Henle- Koch’s postulates
 - Evans postulates
 - Louis postulates
29. When the pathogens originated from separate, non-overlapping geographic areas from the host, then host-pathogen relationship is known as
- Sympatric
 - Allopatric
 - Peripatric
 - Parapatric
30. The effect of an extraneous variable that can wholly or partly account for an apparent association between dependent and independent variables is
- Bias
 - Confounding
 - Matching
 - Risk
31. An contact transmitted Epidemic continues only if
- $R_0 > 1$
 - $R_0 < 1$
 - $R_0 = 1$
 - $R_0 = 0$

32. Sufficient and necessary causes are classified according to which model
- Web of causation
 - Wheel of causation
 - Path model
 - Chain of causation
33. False rejection of true H_0 (Null Hypothesis) is
- Type II error
 - Random error
 - Systemic error
 - Type I error
34. The level of agreement between two tests is frequently expressed by
- p value
 - Spearman's correlation
 - Coefficient of determination
 - Kappa value
35. Sullivan's index refers to
- Expectation of life at birth
 - Expectation of life at 1 year of age
 - Expectation of life free of disability
 - Average Life expectancy
36. ICMR-National Institute of Epidemiology is located at
- New Delhi
 - Chennai
 - Bangalore
 - Bhopal
37. Reporting system used by OIE is
- NADIS
 - NAHIS
 - RADAR
 - WAHIS
38. The patient in an outbreak who is first noticed by the health authorities, and who makes them aware that an outbreak might be emerging is called
- Primary case
 - Secondary case
 - Contact case
 - Index case
39. Bhopal gas tragedy is an example of
- Propagated epidemic
 - Modern epidemic
 - Common source epidemic
 - Outbreak

40. The hallmark feature of an analytic epidemiologic study is
- Laboratory confirmation of the diagnosis
 - Use of an appropriate comparison group
 - Publication in a peer-reviewed journal
 - Statistical analysis using logistic regression
41. The Framingham Study is an example of a/an
- Ecologic Study
 - Cohort Study
 - Case-Control Study
 - Nosology
42. When a cut-off point is identified, then the relationship between sensitivity and specificity of a particular test is
- Direct
 - Inverse
 - No relationship at all
 - It depends upon type of disease to be tested
43. Collection of specific information about a defined disease so that its level in a defined population can be measured and its absence monitored is
- Scanning surveillance
 - Global surveillance
 - Targeted surveillance
 - Passive surveillance
44. A method of data collection in which several rounds of questionnaires are mailed to a panel of experts, focusing on their opinions or judgment concerning a specific topic of interest is
- Focus group interview
 - Meta-analysis
 - Delphi technique
 - Secondary analysis
45. As a thumb rule, if the researcher do not have any idea on prevalence of disease in study population then for calculation of sample size, expected prevalence is taken as
- 100%
 - 50%
 - 25%
 - 0%

46. Which of the following software has been developed by CDC, Atlanta for epidemiological analysis
- EpiInfo
 - EPISTAT
 - EPILOG PLUS
 - EPICURE
47. National Animal Disease Referral Expert System (NADRES) was launched by
- National Institute of High Security Animal Diseases
 - Food Safety and Standard Authority of India
 - National Institute of Veterinary Epidemiology and Disease Informatics
 - Indian Council of Medical Research
48. HandiSTATUS stands for
- Help with Asian Animal Disease Status
 - Help with World Animal Disease Status
 - Help with Indian Animal Disease Status
 - Help with American Animal Disease Status
49. Which of the following scientist has suggested criteria for establishing causation in epidemiology
- Hippocrates
 - John Snow
 - John Graunt
 - Bradford Hill
50. Which of the following containment level is required for research work on Nipah Virus
- Biosafety level 4
 - Biosafety level 3
 - Biosafety level 2
 - Biosafety level 1
51. Human rabies immunoglobulin's dose used after rabid dog bite to human is
- 20 IU/Kg body weight
 - 15 IU/Kg body weight
 - 10 IU/Kg body weight
 - 5 IU/Kg body weight
52. Which of the following Novel influenza virus of public health significance detected recently in pigs in China
- G4 EA H5N7
 - G4 EA H5N1
 - G3 EA H1N1
 - G4 EA H1N1

53. Incubation period of Rabies besides other factors also dependent on speed of migration of virus, which is measured in animal experiments as
- 15 mm per hour
 - 25 mm per hour
 - 10 mm per hour
 - 3 mm per hour
54. OIE reference laboratory for Rabies in India is located at
- Veterinary College, Bengaluru
 - NIHSAD, Bhopal
 - NIV, Pune
 - IVRI, Bareilly
55. Which of the following species of *Brucella* is most pathogenic to human
- Brucella abortus*
 - Brucella melitensis*
 - Brucella suis*
 - Brucella canis*
56. Which of the following is a “Marker vaccine or DIVA strategy” used against brucellosis in cattle
- Brucella abortus* 45/20
 - Brucella abortus* S -19
 - Brucella abortus* RB 51
 - Brucella abortus* 104M
57. In tuberculosis there is caseous necrosis of tubercle lesions occurs which later on calcified except in case of
- Mycobacterium tuberculosis* infection
 - Mycobacterium bovis* infection
 - Mycobacterium avium* infection
 - Mycobacterium marinum* infection
58. The ticks involved in transmission of Kyasanur Forest Disease (KFD) virus in India belong to the genus
- Ixodes*
 - Dermacentor*
 - Haemaphysalis*
 - Ambylomma*
59. World Rabies day is celebrated every year on
- September 8
 - September 18
 - September 28
 - September 10
60. Anton’s test is used for the diagnosis of
- Anthrax
 - Listeriosis
 - Brucellosis
 - Leptospirosis

61. Casoni's test is used for the diagnosis of
a. Hydatidosis
b. CLM
c. VLM
d. Histoplasmosis
62. Dysgonic species of Mycobacterium is
a. *Mycobacterium tuberculosis*
b. *Mycobacterium bovis*
c. *Mycobacterium avium*
d. *Mycobacterium marinum*
63. Who was first chief of VPH department in WHO
a. Dr. Guerin
b. Dr. Daniel E. Salmon
c. Dr. Martin Kaplan
d. Dr. James H. Steel
64. The cells parasitized in host by Rickettsia are
a. Erythrocytes
b. Gut epithelium
c. Vascular endothelial cells
d. Neutrophils
65. The Weil-Felix test is an agglutination reaction between
a. Antibody against Rickettsia and antigen from *Brucella*
b. Antibody against Rickettsia and antigen from *Proteus*
c. Antibody against Rickettsia and antigen from *Pseudomonas*
d. Antibody against Rickettsia and antigen from *Staphylococci*
66. Swimming pool granuloma in humans is caused by
a. *Mycobacterium platypocilus*
b. *Mycobacterium marinum*
c. *Mycobacterium xenopei*
d. *Mycobacterium avium*
67. Psittacosis is caused by
a. *Chlamydia psittaci*
b. *Chlamydo philapsittaci*
c. *Rickettsia psittaci*
d. *Mycoplasma psittaci*
68. Gold standard test for diagnosis of Leptospirosis as per OIE is
a. Dark field Microscopy
b. Microscopic agglutination test
c. Macroscopic agglutination test
d. Culture and identification

69. Revised National Tuberculosis Control Programme (RNTCP) was launched in India in year
- 1987
 - 1989
 - 1997
 - 1999
70. The periodical booster dose of rabies vaccine are recommended if the virus neutralizing antibody titer falls below
- 0.50 IU/ml
 - 1.50 IU/ml
 - 0.05 IU/ml
 - 0.005 IU/ml
71. Sabin and Feldman dye test is used for the diagnosis of
- Hydatidosis
 - Toxoplasmosis
 - Plague
 - Leptospirosis
72. Habel's testing (mouse test) is done for the diagnostic assessment of
- West Nile fever
 - KFD
 - Rabies
 - Anthrax
73. In rabies Negri bodies are seen in
- Hippocampus and Cerebrum
 - Medulla and Hippocampus
 - Hippocampus and Cerebellum
 - Cerebrum and Medulla
74. Horder's spots are reddish macular lesions may appear on face of humans affected with
- Q fever
 - Lyme disease
 - Psittacosis
 - Leptospirosis
75. Rose Gardner's disease is caused by
- Aspergillus fumigates*
 - Rhinosporidium seebri*
 - Sporothrix schenckii*
 - Candida albicans*
76. Brill Zinsser disease is caused by
- Rickettsia prowazekii*
 - Rickettsia typhi*
 - Rickettsia rickettsii*
 - Rickettsia conorii*

77. Paragonimuswestermani infection in humans is mostly acquired orally through ingestion of the
- Infectiousmetacercarial stage encysted on water plants
 - Infectiousmetacercarial stage encysted in fish
 - Infectiousmetacercarial stage encysted in crabs/crayfish
 - Infectiousmetacercarial stage encysted in ants
78. Alveolar Echinococcosis in humans is mainly caused by infection with the larval stage of
- Echinococcusgranulosus*
 - Echinococcusmultilocularis*
 - Echinococcusvogeli*
 - Echinococcusoligarthus*
79. Rotten egg odour in water is indicative of presence of
- Ammonia
 - Hyrogensulphide
 - Cyanide
 - Algae
80. In India, The water (Prevention and Control of Pollution) Act was passed in the year
- 1984
 - 1974
 - 1994
 - 1964
81. Use of naturally occurring microorganisms (like bacteria, fungi, plants) to break down or degrade toxic chemicals accumulated in the environment is known as
- Bioremediation
 - Detoxification
 - Eutrophification
 - Biomagnification
82. Which of the following year has been declared as the “International year of Sanitation” by the United Nations Organization (UNO)
- 2008
 - 2018
 - 2010
 - 2012
83. Global agreement in specific control strategies to reduce the release of ozone depleting substances, was adopted by
- TheKoyoto Protocol
 - The Montreal Protocol
 - Rio de Janeiro Conference
 - The Vienna Convention

84. Lichens are widely used as environmental indicators or bio-indicators and based – indicator of air pollution by
- Sulphur dioxide
 - Ozone
 - Heavy metals
 - Carbon monoxide
85. The United Nations Environment Programme (UNEP) was established by United Nations General Assembly in the pursuance of
- Vienna convention
 - Helsinki declaration
 - Stockholm declaration
 - Montreal protocol
86. Kyoto Protocol mainly aimed at
- To prevent international commercial trade in endangered species
 - To provide international legal framework for protection of ozone layer
 - To protect wildlife
 - To stabilize the green house gases
87. The headquarter of International Union for Conservation of Nature and Natural Resources (IUCN) is located at
- Gland, Switzerland
 - Nairobi, Kenya
 - Geneva, Switzerland
 - Rome, Italy
88. In India National Bureau of Animal Genetic Resources (NBAGR) is located at
- Bhopal
 - Allahabad
 - Kolkata
 - Karnal
89. Which of the following organism is used during Bioremediation and also known as “Petroleum eating bacteria”
- Pseudomonas putida*
 - E. coli* strains
 - Deinococcus radiodurans*
 - Aeromonas*
90. Headquarter for System of Air Quality and Weather Forecasting And Research (SAFAR) in India is located at
- Kolkata
 - Chandigarh
 - Pune
 - Lukhnow
91. Which of following is the platform test used for acceptance or rejection of milk
- Clot on Boiling test
 - SPC
 - MBRT
 - MPN test

92. Cadaverine a spoilage indicator of meat, is produced by
a. *Pseudomonads*
b. *Enterobacteriaceae*
c. *Acinetobacter*
d. *Moraxella*
93. Crimean Congo Hemorrhagic fever is caused by
a. *Nairovirus*
b. *Alphavirus*
c. *Flavivirus*
d. *Filovirus*
94. Bacillary angiomatosis and Piliosis are characteristic symptoms of infection with
a. *Yersiniaenterocolitica*
b. *Bartonellahenselae*
c. *Borrelia burgdorferi*
d. *Borrelia recurrentis*
95. Erythema migrans with bull eye appearance in humans is caused by
a. *Yersiniaenterocolitica*
b. *Mycobacterium tuberculosis*
c. *Borrelia burgdorferi*
d. *Borrelia recurrentis*
96. Fort Bragg fever is caused by
a. *Leptospira* spp.
b. *Salmonella* spp.
c. *E. coli* O157:H7
d. *Mycobacterium* spp.
97. H1N1 influenza virus human vaccine Panenza is a
a. Live attenuated virus vaccine
b. Inactivated adjuvanted polyvalent vaccine
c. Inactivated nonadjuvanted monovalent vaccine
d. Recombinant DNA vaccine
98. The Scrub typhus is also known as
a. Louse borne typhus
b. Flea borne typhus
c. Chigger borne typhus
d. Tick borne typhus
99. Baudouin test is used to detect adulteration of ghee with
a. Boric Acid
b. Hydrogen Peroxide
c. Sesame oil
d. Sodium carbonate

100. Presence of meat in a food commodity can be ascertained by estimating the presence of
- 3 – ethyl histidine
 - 3 – methyl histidine
 - 3 – phenyl histidine
 - 3 – phenyl lysine
101. Luotocapillary agglutination test in milk is used for the diagnosis of
- Listeriosis
 - Vibriosis
 - Q-fever
 - Anthrax
102. Even consumption of boiled milk may cause
- Staphylococcal gastroenteritis
 - Q-fever
 - Brucellosis
 - Tuberculosis
103. The bacterium which has the capability to grow in the refrigerated foods and exhibit characteristic ‘tumbling motility’ at 25°C is
- Yersinia enterocolitica*
 - Campylobacter jejuni*
 - Pseudomonas aeruginosa*
 - Listeria monocytogenes*
104. In poultry Giblet is consist of
- Heart, Liver, Spleen
 - Heart, Liver, Kidneys
 - Heart, Liver, Gizzard
 - Heart, Liver, Spleen
105. The recommended lighting intensity in inspection areas of abattoir should be
- 540 lux
 - 840 lux
 - 240 lux
 - 140 lux
106. Time-Temperature of vat-pasteurization was increased from 61.7°C to 62.8°C to ensure the destruction of the organism named
- Mycobacterium tuberculosis*
 - Staphylococcus aureus*
 - Coxiella burnetii*
 - Bacillus cereus*
107. Hotis test gives the most accurate information about mastitis infection caused by
- Streptococcus galactiae*
 - Escherichia coli*
 - Staphylococcus aureus*
 - Listeria monocytogenes*

108. During the post mortem inspection of lungs, which one of the following lymph node should be examined
- Portal lymph node
 - Mesentric lymph node
 - Mediastinal lymph node
 - Maxillary lymph node
109. Most common form of bacterial spoilage of egg is
- Blood spot
 - Soft shell
 - Rotting
 - Green spot
110. HACCP concept was developed by
- H. E. Bauman
 - James H. Steel
 - Robert Koch
 - Louis Pasture
111. The ICMR recommendation for Per capita availability of milk in India is
- 500 grams
 - 400 grams
 - 350 grams
 - 250 grams
112. Scombroid poisoning is contracted by eating scombroid fish containing high levels of
- Histamine
 - Putrcine
 - TMAO
 - Tetrodotoxin
113. Which of the following mould is referred as dairy mould
- Fusarium*
 - Geotrichum*
 - Penicillium*
 - Cladosporium*
114. During smoking of meat, the chief bacteriostatic and bactericidal substance present in woodsmoke is
- Phenols
 - Formaldehyde
 - Peroxides
 - Alcohol
115. To prevent contamination from GIT, the technique used for sealing the oesophageal–ruminal junction is known as
- Bunging
 - Searching
 - Rodding of weasand
 - Sealing

116. “Cadaverine” a spoilage indicator of meats is produced after the decarboxylation of which amino acid
- a.Lysine
 - b.Ornithine
 - c.Arginine
 - d.Histidine
117. Monkey Feeding test is most widely used to detect which toxins in foods
- a.*Clostridium botulinum* toxins
 - b.*E. coli* toxins
 - c.*Aeromonas* toxins
 - d.*S. aureus* enterotoxins
118. The time required to destroy 90% of the organisms is known as
- a.D value/ Decimal reduction time
 - b.Thermal death time
 - c.Z value
 - d.F Value
119. ISO 22000 is a generic series of standards published by ISO on
- a.Quality management systems
 - b.Environment management systems
 - c.Food safety management systems
 - d.Laboratory safety management systems
120. The Head quarter of Marine Products Export Development Authority (MPEDA) is located at
- a.New Delhi
 - b.Kolkata
 - c.Kochi
 - d.Chennai

1.	B.
2.	B.
3.	A.
4.	D.
5.	D.
6.	A.
7.	D.
8.	B.
9.	D.
10.	B.
11.	A.
12.	C.
13.	B.
14.	B.
15.	C.
16.	A.
17.	B.
18.	A.
19.	B.
20.	A.
21.	B.
22.	A.
23.	D.
24.	A.
25.	A.
26.	D.
27.	A.
28.	C.
29.	B.
30.	B.

31.	A.
32.	B.
33.	D.
34.	D.
35.	C.
36.	B.
37.	D.
38.	D.
39.	C.
40.	B.
41.	B.
42.	B.
43.	C.
44.	C.
45.	B.
46.	A.
47.	C.
48.	B.
49.	D.
50.	A.
51.	A.
52.	D.
53.	D.
54.	A.
55.	B.
56.	C.
57.	C.
58.	C.
59.	C.
60.	B.

61.	A.
62.	B.
63.	C.
64.	C.
65.	B.
66.	B.
67.	A.
68.	B.
69.	C.
70.	A.
71.	B.
72.	C.
73.	C.
74.	C.
75.	C.
76.	A.
77.	C.
78.	B.
79.	B.
80.	B.
81.	A.
82.	A.
83.	B.
84.	A.
85.	C.
86.	D.
87.	A.
88.	D.
89.	A.
90.	C.

91.	A.
92.	B.
93.	A.
94.	B.
95.	C.
96.	A.
97.	C.
98.	C.
99.	C.
100.	B.
101.	C.
102.	A.
103.	D.
104.	C.
105.	A.
106.	C.
107.	A.
108.	C.
109.	C.
110.	A.
111.	D.
112.	A.
113.	B.
114.	B.
115.	C.
116.	A.
117.	D.
118.	A.
119.	C.
120.	C.