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	مقرر صحة الحيوان والدواجن والبيئة		
	Final written exam – 2022		
	Date: 28-6-2022	Time: 2 hrs.	
	No. of pages: 7	Grades: 25	

I. Choose the correct answer: (20 Marks)

1. ----- is a construction that allows to completely immerse livestock in a liquid that contains an insecticide and used in case of large no.
 - a. Dipping
 - b. Spraying
 - c. Dusting
 - d. Misting
2. Restricted area is located from the edge of the infected zone in a radius from the infected premise(s) for most diseases.
 - a. 30 km
 - b. 10 km
 - c. 100 km
 - d. 50 km
3. Poultry farms should be located at -----from away from the nearest breeder farms.
 - a. 10 Km
 - b. 1.6 Km
 - c. 3 Km
 - d. 30 Km
4. ----- is the branch of public health that is concerned with keeping the environment healthful through preventing contact between animals and disease-causing agents.
 - a. Immunization
 - b. Treatment
 - c. Vaccination
 - d. Sanitation
5. ----- is the first stage of the general adaptation in which immediate reaction to a stressor occur by stimulation of the adrenal medulla.
 - a. Alarm stage
 - b. adaptation stage
 - b. Resistance stage
 - d. Exhaustion stage
6. If the count of flies' increase, control program should be
 - a. Modified
 - b. Continued
 - c. Kept
 - d. Changed
7. -----is the integration of chemical, biological and cultural (management) control methods to reduce parasite populations below an economic threshold.
 - a. insecticides
 - b. IPM
 - c. IMP
 - d. fly control

8. Once an infectious disease has been detected or even suspected, the first action to take is -----
 a. Isolation
 b. quarantine
 c. Notification
 d. Vaccination
9. Tuberculin test is one of the preventive methods to -----
 a. eliminates carriers
 b. detect the disease
 c. treat animals
 d. excludes animals
10. Monitoring of number of flies could be applied using baited traps, sticky ribbons and -----
 a. manure heaps
 b. water ban
 c. spot cards
 d. wire mesh
11. During quarantine, if a contagious disease appears after postmortem and laboratory examination of dead animals, disposal of carcasses by -----
 a. Burning
 b. burial
 c. composting
 d. carcass utilization
12. In the importing country, the Veterinary official shall order the unloading of animals after arrival if there is no -----
 a. name of the farm
 b. animals' data
 c. name of the owner
 d. veterinary certificate
13. Application rate of Foam Cleaning is -----
 a. 300 ml/m²
 b. 400 ml/m²
 c. 500 ml/m²
 d. 250 ml/m²
14. Management stressors on animal include -----
 a-exposure to direct solar radiation
 b-bad house construction
 c-high temperature
 d-none of them
15. Thermal comfort zone depends on species and age, as younger birds responding ----- to warmer temperatures.
 a. less
 b. Sometimes
 c. better
 d. None of the above
16. Temperature decreased gradually ----- daily till maintained at 18- 21° C
 a. 5° C
 b. 2° C
 c. 1° C
 d. 0.5° C
17. ----- occurs when temp. reaches 29 – 30 °C, panting - reduction of CO₂ conc. and change of blood pH.
 a. Ascites
 b. Alkalosis
 c. Heat stress
 d. digestive disturbance
18. Application of extracting fans in face of cooling pad is called -----
 a. Tunnel ventilation
 b. Cross ventilation
 c. Natural ventilation
 d. Roof ventilation

19. The animal that does not affected by an organism (not assuming a parasitic existence), yet it remains a potential source of disease, both to itself and to other susceptible animals is called-----carrier
- healthy
 - diseased
 - convalescent
 - incubated
20. Application rate of Spray Cleaning is
- 300 ml/m²
 - 400 ml/m²
 - 500 ml/m²
 - 250 ml/m²
21. Requirements of light intensity for breeder farms should be-----
- 20 – 40 lux
 - 10 – 20 lux
 - 50 – 100 lux
 - 5 – 10 lux
22. 30. in layer farms, 24 hrs. continuous photoperiod in 1st 5 days, then gradual decrease till reach ----- Light/day (extend to the 16th weeks of age). According to manual of the commercial breed, photoperiod increase gradually to be ----- hrs./day at 18-20th weeks to the end.
- 9 hrs., 16.5 hrs.
 - 22hrs., 9 hrs.
 - 23 hrs., 8 hrs.
 - 9 hrs., 15 hrs.
23. Vaccination can cause animal stress due to
- handling and securing
 - age
 - immune response
 - all of them
24. Exposure to high temperature result in
- low food and water intake
 - high food and water intake
 - low food intake low movement
 - none of them
25. Numbers of birds / m² in broiler closed systems are-----
- 9 – 10 bird / m²
 - 30 – 60 bird / m²
 - 17 – 18 bird / m²
 - 7 – 10 bird / m²
26. In the importing country, if an epizootic disease is confirmed or the health certificate was incorrect, the animals should be-----
- slaughter and destroyed
 - slaughtered and sold
 - vaccinated and kept
 - tested and kept
27. Litter considered as source of food supply because it rich in -----
- Ammonia
 - Protein like factor
 - Cellulose
 - Vit. C
28. ----- introduced into a country or region, from importation of infected animal or animal products.
- Transboundary diseases
 - indigenous diseases
 - Exotic diseases
 - dangerous diseases
29. -----are high risk visitors.
- Salesmen
 - Feed distributors
 - Veterinarians
 - Farm equipment mechanics

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30. The first line of defense against introducing infectious diseases into a country is...
 a. Disinfection
 b. Quarantine
 c. Vaccination
 d. Isolation
31. Measures taken to keep disease agents out of populations or herds of animals, besides control spread of disease agents within the herd. -----
 a. biosecurity
 b. Cleaning
 c. Isolation
 d. Vaccination
32. A disease that is endemic to the country or region, maintained in livestock herd and/or free ranging wildlife population. -----
 a. Indigenous
 b. Epidemic
 c. Pandemic
 d. Outbreak
33. The class of stress in which animal is exposed to a high level of suffering is -----
 a. Discomfort
 b. Exhausted
 c. Distress
 d. Fatigue
34. In case of FMD, diseased animals will Isolate and the animals in contact does not leave quarantine before ----- of last appearance of disease symptoms.
 a. 12 days
 b. 10 days
 c. 11 days
 d. 30 days
35. is a syndrome results from exposure of the animal to a hostile environment.
 a. Stress
 b- Disease
 c- Homeostasis
 d. Exhaustion
36. Which one is not artificial Cooling-----
 a. Fog system.
 b. Ultra high-pressure mister.
 c. Evaporative pad cooling
 d. Roof ventilation
37. immediate reaction to a stressor occur by stimulation of the adrenal medulla causing release of hormone.
 a. adrenaline
 b. glucocorticoides
 c. growth hormone
 d. Testosterone
38. Organic matter may prevent the efficacy of disinfectants through-----
 a- coating the microorganisms
 b- reacts with the disinfectant
 c- combines with the disinfectant
 d, all above
39. is the area from the outside edge of the restricted zone to the boundary of the control area in biosecurity zone of an infected farm.
 a. Infected area
 b. restricted area
 c. Security area
 d. control
40. Chemical factors affecting animal health include.....
 a-climate
 b-housing
 c-nutrients and toxins
 d- disease causing agents

41. Physiological measurement of animal stress depends on determination of levels.

- a-hormones
- b-enzymes
- c-minerals
- d. others

42. Pouring insecticides along the backline, roughly from the neck to the tail are called-----

- a. Dusting
- b. Hand spraying
- c. Dipping
- d. Pour-on

43. Poor animal handling during dehorning and castration is considered.....

- a-environmental stress
- b-social stress
- c- managemental stress
- d-climatic stress

44.-----is to prevent the spread of current and existing pathogen amongst animal groups within a farm or the release from the farm.

- a. Bio exclusion
- b. eradication
- c. Biocontainment
- d. prevention

45. -----is the required lux for broilers.

- a. 100 lux
- b. 5 -10 lux
- c. 80 -100 lux
- d. 20 – 40 lux

46. removal of manure from buildings aids in odor removal but require considerable amount of water that adds to the volume of wastes.

- a. chemical
- b. hydraulic
- c. tractor
- d. biological

47. Prevent spread of already present disease is called -----

- a- prevention
- b-eradication
- c- control
- d-treatment

48. Behavioral measures of stress include development of new behavior as-----

- a-dust bathing
- b-stall weaving
- c-short resting times
- d-delayed milk let-down

49..... is considered notifiable disease for cattle

- a. Bovine Brucellosis
- b. Bovine mastitis
- c. Bovine Salmonellosis
- d. Bovine anemia

50. Length of quarantine period in cattle for breeding is-----

- a. 8 days
- b. 21 days
- c. 33 days
- d. 12 days

51.The use of disinfection and proper sanitation can-----

- a. Reducing the number of susceptible animals.
- b. Breaking the connection between the source of the infection and suspected animals
- c. Reducing or eliminating the source or reservoir of infection.
- d. None of above

52. TADS could gain the access through-----
 a. insect vectors b. dead carcass
 c. high temperature d. None of them
53. Quarantine Location must be away from-----
 a. airport b. seaport
 c. livestock facilities d. main road
54. Dead carcasses during the quarantine must be disposed and approved by-----
 a. owners b. agriculture engineering
 c. farmers d. Veterinary authority
55. -----means segregation of suspected animals with a contagious disease from the apparently healthy.
 a. Isolation b. restriction
 c. quarantine d. Notification
56. -is applied to prevent transmission of infections (transboundary animal diseases, TADs) or vector from one country to another.
 a. Isolation b. international quarantine
 c. Locally quarantine d. Notification
57. Bactericidal disinfectant must be capable of achieving on surfaces from the initial bacterial count
 a. 5 log reductions b. 4 log reductions
 c. 3 log reductions d. None of the above
58. is considered effective disinfectant against Coccidia
 a. Citric Acid b. Iodophors
 c. QACS d. Ammonium Hydroxide
59. Cleaning is considered a complimentary process to disinfection as it -----
 a. achieves the desired microbial reduction b. Removes Dust.
 c. Save time d. Save labor
60. Disposal method which results in useful byproducts such as animal fat and dried animal protein. -----
 a. Burying b. Burning
 c. industrial Utilization d. Composting

II. Put True (A) or False (B) for the following sentences (5 Marks)

61. Sodium Hydroxide 4 % is an effective disinfectant against FMDV
62. Hand spraying, mostly using a back or knapsack sprayer is the cheapest way of applying insecticides to all kinds of livestock.
63. Disinfectants application rate can be raised to 400 ml / m² in case of epidemics
64. Poisoning and predation are drawbacks of poor animal transportation

65. Glutaraldehyde and QACS disinfectants can be applied by foaming.
66. In some circumstances, dead animals may be disposed of by mounding whereby they are covered by a layer of soil above ground in burial method.
67. During the resistance stage of adaptation to stress, if the stressor continues the body returns gradually to its normal state.
68. Routine blood testing helps us to eliminate the carriers of most infectious diseases.
69. Fumigation process is a suitable method for aerial sanitation
70. Stress of fear in milking animals can delay the milk let down up to 20 minutes
71. Quarantine station should be located near a seaport or airport, or other facilities used for loading or unloading animals for export to reduce risk of contamination when transporting potentially infective animals.
72. Cold fogging yields smaller droplets diameter than thermal fogging
73. Reducing or eliminating the source or reservoir of infection by mass immunization
74. Period of confinement in the quarantine station depends on Animal species and purpose of import (breeding or slaughter) Providing those animals are accompanied by an international veterinary certificate
75. mass immunization aims to break the connection between the source of the infection and susceptible animals
76. Fungicidal disinfectant must be capable of achieving 5 log reductions on surfaces from the initial Fungal count
77. Foam cleaning is superior to spray cleaning as it reduces the cost of detergents
78. Pregnant animals, young and aged animals are severely affected by vaccination.
79. The period of quarantine should be equal to, or longer than, the incubation period of the suspected disease
80. Stress negatively impacts sex hormones, which can affect anti-predator responses.

With my best wishes

Prof. Dr. Manal Zaki