Rajarshi Chhatrapati Shahu College, Kolhapur B.Sc II (CBCS) Zoology

Paper VIII

APPLIED ZOOLOGY I

Multiple Choice questions:

1) Which bacteria is involved in the	typhoid fever?
A.) Salmonella typhi	b.) Escherischia coli
C.) Both (a) and (b)	d.) None of these
2)Salmonella typhi is which type of l	bacteria ?
A.) Gram negative bacteria	b.) Gram positive bacteria
C.) Both (a) and (b)	d.) None of these
3) Which test is done for the diagnos	is of typhoid fever ?
A.) ELISA test	b.) Widal test
C.) Both a and b	d.) Urine test
4. What is the structure of typhoid car	using bacteria?
a.) Flagellated	b.) Non-flagellated
c.) Rod shaped	d.) Both (a) and (c)
5.What is the incubation period of ty	yphoid fever ?
a.) 3 minutes to 3 hours	
b.) 3 months to 3 years	
c.) 3 days to 3 months	
d.) 3 hours to 3 months	
6.Patients with typhoid fever will die	e ?
a.) True	b.) False
c.) Neither true nor false	d.) Statement is incorrect
7.Typhoid fever is commonly acquire	ed by?
a.) Consuming food or water contam	inated by fecal material of infected person

b.) Eating Salmonella cysts in the muscles of infected person
c.) Direct sexual contact
d.) Drinking unpasteurized milk
8is known as "enteric fever".
a.TB b.typhoid c.swine flue d.encephalitis
9.The causative of tuberculosis is
(a) Virus
(b) Bacterium
(c) Malnutrition
(d) Protozoan
10. The first person who discovered Mycobacterium tuberculosis was
(a) Louis Pasteur
(b) Robert Koch
(c) Edward Jenner
(d) None of the above
11.For Tuberculosis, the drugs used to combat it are
(a) Streptomycin, Pyrazinamide
(b) Isoniazid, Rifampicin
(c) Both (a) and (b)
(d) None of these
12. The BCG vaccine is administered for immunity against
(a) Malaria
(b) Tuberculosis
(c) Jaundice
(d) Hepatitis
13. The causative of Tuberculosis produces Tuberculin, it is a/an
(a) enzyme
(b) hormone
(c) endotoxin
(d) exotoxin
14. This is the main symptom of Tuberculosis

- (a) Liquid formation
- (b) Tubercle formation
- (c) both (a) and (b)
- (d) None of these
- 15. Sitophilus oryzae is common stored grain pest of-----
- a.Maize b.Wheat c.Sugarcane d.Pulses
- 16. Which of the following is called as lesser grain borer----
- a.Tragoderma granarium b.Tribleum castaneum
- c.Calandra oryzae d.Rhizopertha dominica
- 17. The beetle , Callosobruchus causes damage to pulses----
- a.larval and stored pulses b.adult and stored pulses c.larval and standing crops
- d.adult and standing crops
- 18. Which of the following is scientific name of rice weevil ----
- a.Tragoderma granarium b.Triboleum castaneum
- c.Calandra oryzae d.sitophilus oryzae
- 19Scientific name of pulse beetle is----
- a.Tragoderma granarium b.Tribleum castaneum
- c.Callobruchus d.Sitophilus
- 20.Common name of Triboleum castaneum is -----
- a.Red flour beetle b. Rice weevil c. Khapra beetle d.Saw toothed grain beetle
- 21. For the host, the most dangerous relationship with another organism is----
- a.Symbiosis b.Parasitism c.Commensalism d.Mutualism
- 22. The term ectoparasites includes---
- a.Some viruses b.Some bacteria c.Some protozoa d.Some insects
- 23. -----Describes the interaction of two organisms living together
- a.Symbiosis b.Biology c.Microbiology d.Parasitology

24. A relationship between two organisms in which one benefits at the expense of the other is called asa. Parasitism b. Mutualism c. Commensalism d. Amensalism
25. A relationship between two organisms wherein both organisms benefit a.Commensalism b.Mutualism c.Amensalism d.Parasitism
26. An organism that lives on or within another organism on which it is metabolically dependent is called a A) Host B) Parasite C) Pathogen D) Commensal
27. When a parasite is growing and multiplying within or on a host, the host is said to haveA) PathogenicityB) A vectorC) An infectionD) A symptom
28. Any organism or agent that produces a disease is known as a A) Pathogen B) Commensal C) Reservoir D) Vector
29. Which of the following is an example of most common sign of infection?A) Loss of appetiteB) MalaiseC) PainD) Fever
30. The site or natural environmental location in which a pathogen normally resides is called a) Source b) Reservoir c) Vector d) Hot zone
31. Which of the following diseases is spread via vector-borne transmission?a) Lyme diseaseb) Encephalitisc) Plagued) All of the above
32. Elephantiasis is caused by

33. The definitive host for plasmodium is
a.mosquito b.man c.Rat d.Pig
34. One organism benefits and the other is harmed indicate relationship
a.Symbiosis b.Protocoperation c.Mutualism d.Parasitism
35.A symbiotic relationship in which both organisms benefit is
a.mutualism. b.commensalism. c.competition. d.parasitism.
36.Which of the following statements is TRUE of parasitism? a.One organism benefits, and the other is unaffected. b.One organism benefits, and the other is harmed. c.One organism benefits, and the other benefits more. d.Both organisms are harmed.
37. When a tick lives on a dog, the symbiosis can be described as what? a.mutualism, with the tick and the dog as co-hosts. b.predation, with the tick as predator and the dog as prey. c.parasitism, with the dog as parasite and the tick as host. d.parasitism, with the dog as host and the tick as parasite.
38. The relationship between a clownfish and a sea anemone benefits both animals. This is an example of a.mutualism b.parasitism c.predator/prey d.commensalism
annual operation operation proj alternations
39.Symbiosis includes a.mutualism. b.commensalism. c.parasitism. d.all of the above
40. What are the three types of symbiotic relationships between organisms? a.commensalism, parasitism, predator b.commensalism, mutualism, prey c.commensalism, mutualism, parasitism d.mutualism, parasitism, consumer
41.Bacteria in a person's digestive system feeds and breaks down the food, which the person is then able to absorb. What type of relationship is described? a.mutualism b.commensalism c.symbiosis d.parasitism

a.Culex b.Wuchereria d.Aedes d.Plasmodium

42. When bees gather pollen to eat, they also help to spread that pollen to other plants, fertilizing them. Why is this is a classic example of mutualism? a.one organism benefits while another is unaffected. b.one organism benefits while another is harmed. c.both organisms benefit. D.None of the above

43. Which symbiotic relationship is an example of parasitism?

a.ticks feeding on a dog b.bees transporting pollen from flowers

c.pilot fish swimming under sharks d.birds eating insects from the back of a hippo

44. What is symbiosis?
a.population separation b.the state of stability ecosystems are in c.organisms receiving benefits from each other d.the transformation of an organism into adulthood

45.A parasite is a species thata.makes its own food.b.has different pairs of sites.c.must eat food or energy. d.does not feed from other species.

46.Flagellates live in the stomach of termites. They breakdown food that the termites eat, and both organisms benefit from the nutrients. What type of relationship is this? a.commensalism b.mutualism c.predation d.competition

47. Which type of symbiosis occurs between barnacles and whales? a.parasitism b.succession c.commensalism d.mutualism

48. Fungi that feed on a host and harm the host are---- ...a. pseudopods. b.saprophytic. c.parasitic. d.scavengers.

49. Which pair of organisms live in a relationship of mutualism? a.remora fish and whales b.birds and soil c.rabbits and grass d.foxes and rabbits

50. What would be the result if corals did not have a symbiotic relationship with zooxanthellae?

a. The corals would be unable to produce food and energy for themselves.

b.The corals would have difficulty finding mates.

c.The corals would migrate to areas where food was more abundant.

d.The corals would change their feeding habits to become predatory.

51..---- is an organism which provides nourishment & shelter for parasite.

a.Parasite b.Host c.Virus d.Animal

52. Rat flea is example of -----

a. Epiparasite b. Ectoparasite c. Symbiosis d. Mutualism

53.Coral represent ----- relationship. a.Commensalism b.Mutualism c.Parasitism d.Social parasitism

54. The term---- includes both host and parasite a. Dermatology b. Parasitism c. Phylogeny d. Ecology

55. The host in which the parasite becomes adult, reaches maturity and passes its sexual reproduction is called-----

a.Definite host

bPrimary host

c.Natural host

d.Accidental host

56. Which of the following is/are zoonotic diseases----a. Anthrax b. Typhoid c. Dengue d. All of the above

57.In Anthropo-zoonoses infection is transmitted from-----

a.lower vertebrate to Man

b.Man to lower vertebrate

c.both from man to lower vertebrate and lower vertebrate to man

d.from Man to Man

58.Lichen is mutual relationship between----

a. Algae & Bryophyte

b.Angiospern & fungus

c.Algae & fungus

d.Fungus & plant

59.---- means eating at same table

a.Commensalism

b.Symbiosis

c.Parasitism

d.Proto cooperation

60. How you will control zoonotic diseases

a.Keeping hands clean

b.Choosing a pet wisely

c.Handling food safely

d.All of these

61.T.B. is caused by-----a.Mycobacterium leprae
b.Salmonella typhi
c.E.coli
d.Mycobacterium tuberculosis

62.Signs of T.B infection is/are----a.Chest pain
b.Coughing up blood
c.Loss in weight

63.---- disease spread from contaminated food or water

a.AIDs

b.Tuberculosis

d.All of these

c.Typhoid

d.Elephantiasis

64.---- are diagnostic test performed to detect Typhoid

a.Widal test

b.Typhidot

c.Tubex test

d.All of these

65.--- is polyphagous pest which is major pest of cotton

a.Helicoverpa armigera

b.Phyrilla perpusila

c.Sitophilus oryzae

d.Papileo demolius

66.---- is serious pest on sugarcane Phyrilla perpusila Helicoverpa armigera Trichoderma

Callobruchus chinesis

67.Red flour beetle also called as----

a.Sitophilus oryzae

b.Callobruchus chinesis

c.Pyrilla perpusila

d.Tribolium casaneum 68.---- also called as lime butterfly * a.Pyrilla perpusila b.Callobruchus chinesis c.Tribolium casaneum d.Papilio demolus 69. Pupation of Helicoverpa armigera takes place in ----a.Soil b.On nonhost plant c.Twig d.Gram pod 70.Egg plug is made by female ---- at the time of oviposition. a.Sitophilus oryzae b.Callobruchus chinensis c.Pyrilla purpusilla d.Papilio demolus 71.---- is example of American breed. a.Rhode island b.Plymoth Rock c.Both a and b d.Leghorn 72. Objectives of poultry farming involves.... a.To increase meat production b.To increase anual egg production c.To increase quality of meat and egg d.All of the above 73.---- must be considered during management of poultry farm a.Proper temperature b.Proper humidity c.Light d.All of the above 74.Kadaknath poultry bird is generally reared for---a.Egg purpose b.Meat purpose c.Both a and b d.Fighter bird 75. White leghorn birds are reared mainly for----

a.Egg laying b.Meat

d.Marketing

c.Both Egg and meat

76. Sitophilus oryzae is common stored grain pest of---a.Maize b.Wheat c.Sugarcane d.Pulses 77. Which of the following is called as lesser grain borer---a.Tragoderma granarium b.Tribleum castaneum c.Calandra oryzae d.Rhizopertha dominica 78. The beetle , Callosobruchus causes damage to pulses---a.larval and stored pulses b.adult and stored pulses c.larval and standing crops d.adult and standing crops 79. Which of the following is scientific name of rice weevil ---a.Tragoderma granarium b.Sitophilus oryzae c.Calandra oryzae d.Rhizopertha dominica 80. Scientific name of pulse beetle is---a.Tragoderma granarium b.Sitophilus oryzae c.Tribolium castaneum d.Rhizopertha dominica 81. Common name of Triboleum castaneum is ---a.Red flour beetle b.Rice weevil c.Khapra beetle d.Saw toothed grain beetle 82.---- commonly called as rust red floor beetle/bran bug/flour beetle a.Tragoderma granarium b.Sitophilus oryzae c.Tribolium castaneum d.Rhizopertha dominica 83.Lime swallow tail/chequered swalotail also referred as ----a.Sitophilus oryzae b.Callobruchus chinensis c.Pyrilla purpusilla d.Papilio demolus

84.com earworm also called as -----

a.Sitophilus oryzae b.Callobruchus chinensis c.Pyrilla purpusilla d.Helicoverpa armigera 85. Cannabalism behaviour is observed in the larvae of ----a. Helicoverpa armigera b.Callobruchus chinensis c.Pyrilla purpusilla d. Sitophilus oryzae 86.Egg cluster of Pyrilla purpusilla covered by ----a.Soil b.Gum secreted by host plant c. Fluffy material secreted itself d. Excreta itself 87. Full grown nymph of Pyrilla purpusilla bears---a. Spines on thorax b. Hairy tuft at last abdominal segment c. Wooly outgrowth on abdomen d.horns on head 88.---- is damaging stage of papileo a.larva b.Butterfly c.Pupal d.Nymphal 89.Pantotomid bug Canthroconiea furcellata is used to control ----- insect pest. a.Papilio demoleus b.Pyrilla perpusilla c.CAllosobruches chinensis d.Sitophilus 90.Male Callosobruchus chinesis bears ----- type of antennae a.monoliform b.Pectinate c.Serrate d.Setaceous 91. Female *Callosobruchus chinesis* bears ----- type of antennae a.monoliform b.Pectinate c.Serrate d.Setaceous 92.Larval and pupal stages of the life cycle of Callosobruchues chinensis passes into----a.Cell bored within the seed of pulses b.in the pod and on roof of the host plant c.in the flower of host plant d.in the soil at the base of host plant 93.In Sitophilus oryzae larval and pupal stage are completed in the ----a.Soil b.in the grain c.in pod d.in flower 94.---- stored grain pest quikly move to hind deep in heap of grains when it disturbed. a.Tribolium b.Callosobruches c.Sitophilus d.Papilo 95. The complete development of chick is in..? a). 18 - 20th day. b). 20 - 21st day c). 19 - 20th day.

d). 18 - 19th day.

96.Brooder is an equipment to which is used for..?a). Rearing chicks.b). Hatching eggs.c). Incubating eggs.d). All of the above.97. Which is an American breed of hen?

- a). Plymouth Rock.
- b). Dorking.
- c). Brown Leghorn.
- d). Cochin.
- 98. Which is an English breed of hen?
- a). White Leghorn.
- b). Dorking.
- c). Bursa.
- d). Denki.
- 99. Which is a Mediterranean breed of hen?
- a). Cornish.
- b). Brahma.
- c). Wyandotte.
- d). White Leghorn.
- 100. Which is an Asian breed of hen?
- a). Cochin.
- b). Brahma.
- c). Shanghai.
- d). All of the above.
- 101. Which is an Indian breed of hen?
- a). Aseel.
- b). Greychittogon.
- c). Both a and b.
- d). None of the above
- 102. The temperature of poultry house should be..?
- a). 40 50 °F.
- b). 50 75 °F.
- c). 30 45 °F.
- d). 60 − 90 °F.

a). 14 – 15.
b). 10 – 12.
c). 12 – 14. d). 08 – 12
u). 00 – 12
104.Broilers require hrs of light per day?
a). 14 – 15.
b). 15 – 18.
c). 18 – 20.
d). 12 – 14.
105.A layer requires square feet of area?
a). $0.75 - 1$.
b). 3.0-3.6
c). 1 – 1.5
d). $2-2.5$.
106. The origin place of kadaknath is?
a). Gujarat.
b). Maharashtra.
c). Chhattisgarh.
d). Madhya Pradesh.
107. Which is an old method of hen rearing?
a). Cage system.
b). Intensive.
c). Deep litter.
d). None of the above
108. What is culling in hens?
_
a). Cutting feathers.
b). Cutting beaks.
c). To separate weak an non-profitable hens.
d). None
109. The most deadly disease in a poultry farm is?
a). Fowlpox.
b). Fowl cholera.
c). Infectious.
d). New castle.
110 Infectious branchitis is a 2
110.Infectious bronchitis is a?

103. Layers require hrs of light per day?

a). Bacterial disease.b). Viral disease.c). Insect disease.d). Fungal disease.	
111.Fowl cholera is a?	
a). Bacterial disease.b). Viral disease.c). Insect disease.d). Fungal disease.	
112. R. D. vaccine is useful against?	
a). Ranikhet.b). Pox.c). Infectious bronchitisd). White diarrhea.	
113. The care and management of young chicks during early part of their life is called	
a. Brooding b.laying c.culling d.None of the above	
114. Poultry farming involves domestication of bird/birds.	
a. Goose b.Turkeys c.Chickens& ducks d.All of these	
115 is most popular Mediterranean breed.	
a. Plymoth b.Rhode island c.Leghorn d.All of these	
116 Sitophilus oryzae is common stored grain pest of	
a. Maize b. Wheat c. Sugarcane d. Pulses	
117. Scientific name of pulse beetle is	
a. Tragoderma granarium b. Tribleum castaneum c.Callobruchus d.Sitophilus	
118. For the host, the most dangerous relationship with another organism is	
a. Symbiosis b. Parasitism c. Commensalism d. Mutualism	
119. The origin place of Kadaknath is?	
a. Gujarat b. Maharashtra c. Chhattisgarh d. Madhya Pradesh	
120. The definitive host for <i>Plasmodium</i> is	
a. Mosquito b. Man c. Rat d. Pig	

121. T.B. is caused by
a. Mycobacterium leprae b. Salmonella typhi c. E. coli d. Mycobacterium tuberculosis
122 is polyphagous pest which is major pest of cotton a. Helicoverpa armigera b. Phyrilla perpusila c. Sitophilus oryzae d. Papileo demolius
123 is serious pest on sugarcane a. Phyrilla perpusila b. Helicoverpa armigera c. Trichoderma d.Callobruchus chinesis
124. Red flour beetle also called as
a. Sitophilus oryzae b. Callobruchus chinesis c. Pyrilla perpusila d. Tribolium castaneum
125. Brooder is equipment to which is used for?
a. Rearing chicks b. Hatching eggs c. Incubating eggs d. All of the above
126. Objectives of poultry farming involves
a. To increase meat production b. To increase annual egg production
c. To increase quality of meat and egg d. All of the above
127. White leghorn birds are reared mainly for
a. Egg laying b. Meat c. Both Egg and meat d. Marketing
128 is damaging stage of Papileo
a. Larva b. Butterfly c. Pupal d. Nymphal
129. In Sitophilus oryzae larval and pupal stage are completed in the
a. Soil b. in the grain c. in pod d. in flower
130. Which of the following organism responsible for T.B
a. Protozoa b. Fungus c. Virus d. Bacteria
131. Which is an American breed of hen?
a. Plymouth Rock b. Dorking c. Brown Leghorn d. Cochin
132Describes the interaction of two organisms living together
a. Symbiosis b. Biology c. Microbiology d. Parasitology
133. Causitive agent for enteric fever is?
a. Escherischia b. Salmonella c. Tuberculosis d. all of these

- 134. The BCG vaccine is administered for immunity against ----
 - a. Malaria
- b. Tuberculosis
- c. Jaundice
- d. Hepatitis
- 135. A relationship between two organisms in which one benefits at the expense of the other

is called as -----

- a. Parasitism b. Mutualism c. Commensalism d. Amensalism
- Q.2. Give the answers of the following questions
- 1. Describe in detail causative agent, transmission, symptoms and control measures of Typhus fever?
- 2. Enlist Different breeds of fowl. Explain in detail management of Poultry
- 3. Describe in detail life cycle, host, damage caused and economic importance of *Sitophilus oryzae*?
- 1. Describe in detail causative agent, transmission, symptoms and control measures of Typhoid?
- 2. Define parasite. Explain in detail about symbiosis and parasitism.
- 3. Describe in detail life cycle, host, damage caused and economic importance of *Papileo demolius*?
- 4. Describe in detail life cycle, host,damage caused and economic importance of *Sitophilus oryzae*?
- 5. Describe in detail life cycle, host,damage caused and economic importance of *Callosobruchus chinensis*?
- 6. Describe in detail life cycle, host, damage caused and economic importance of *Helicoverpa* armigera?
- 7. Describe in detail life cycle, host, damage caused and economic importance of *Pyrilla perpusilla*?
- 8. Describe in detail life cycle, host, damage caused and economic importance of *Tribolium* castaneum?
- 9. Enlist Different breeds of fowl. Explain in detail different systems of Poultry
- 10. Give an account on management of broilers
- 11. Give an account of Management of Breeding stock
- Q.3. Write short note on following
- 1. Control measures of Syphilis
- 2. Control measures of Tuberculosis

- 3. Preservation of Eggs
- 4. Mutualism
- 5. Exotic breeds of Fowl
- 6. Symbiosis
- 7. Parasitism
- 8. Typhidot test
- 9. Zoonosis
- 10.Different systems for poultry farming
- 11. Economic importance of Helicoverpa armigera
- 12.Basic requirement of poultry housing
- 13. Egg processing
- 14.Poultry House
- 15. Nutrints of poultry bird
- 16.Feed management
- 17.Litter Management
- 18.Commercial methods of Egg preservation
- 19.Environmental management in Poultry house