Yashwantrao Chavan College of Science, Karad.

B.Sc. Part II Semister -IV

Paper- VIII APPLIED ZOOLOGY I Question Bank

Multiple choice questions

- 1. 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.
- 2. 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.
- 3. 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
- 4. 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
- 5. Rat flea is example of ----
 - a. Epiparasite b. Ectoparasite c. Symbiosis d. Mutualism
- 6. Coral represent ----- relationship.
 - a.Commensalism b.Mutualism c.Parasitism d.Social parasitism

7. The term---- includes both host and parasite a.Dermatology b.Parasitism c.Phylogeny d.Ecology 8. 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 9. The first person who discovered Mycobacterium tuberculosis was (a) Louis Pasteur (b) Robert Koch (c) Edward Jenner (d) None of the above 10. For Tuberculosis, the drugs used to combat it are (a) Streptomycin, Pyrazinamide (b) Isoniazid, Rifampicin (c) Both (a) and (b) 11. Which type of symbiosis occurs between barnacles and whales? a.parasitism b.succession c.commensalism d.mutualism 12. Fungi that feed on a host and harm the host are----...a.pseudopods. b.saprophytic. c.parasitic. d.scavengers 13. Patients with typhoid fever will die? a.) True b.) False b.) Neither true nor false d.) Statement is incorrect 14. Typhoid fever is commonly acquired by? a.) Consuming food or water contaminated by fecal material of infected person b.) Eating Salmonella cysts in the muscles of infected person c.) Direct sexual contact d.) Drinking unpasteurized milk

15is known	as "enteric feve	r".		
a.TB b.typhoid c.s	wine flue d.ence	ephalitis		
16. Scientific name of	pulse beetle is-			
a.Tragoderma gra	narium b.Trib	leum castaneum		
c.Callobruchus	d.Sitop	ohilus		
17. Common name of	Triboleum casto	aneum is		
a.Red flour beetle	b. Rice weevil c	. Khapra beetle d.Saw	v toothed grain beetle	
18. For the host, the n	ost dangerous r	elationship with anoth	ner organism is	
a.Symbiosis b.Par	asitism c.Comm	ensalism d.Mutualism	1	
19. Flagellates live in	the stomach of t	ermites.They breakdo	own food that the termite	es eat,and
both organisms be	nefit from the n	utrients.What type of	relationship is this?	
a.commensalism l	.mutualism c.pr	edation d.competition	ı .	
20. Which pair of org	anisms live in a	relationship of mutual	lism?	
a. remora fish and	whales b.birds	and soil		
c.rabbits and grass	d.foxes	and rabbit		
21. Cannabalism beha	viour is observe	d in the larvae of		
a.Helicoverpa arm	igera			
b.Callobruchus ch	inensis			
c.Pyrilla purpusill	ì			
d. Sitophilus oryz	ne			
22. Egg cluster of Pyr	illa purpusilla co	overed by		
a.Soil				
b.Gum secreted by	host plant			
c. Fluffy material	secreted itself			
d. Excreta itself				
23. Full grown nympl	of Pyrilla purp	usilla bears		
a.Spines on thorax				
b.Hairy tuft at last	abdominal segr	nent		
c.Wooly outgrow	h on abdomen			
d.horns on head				

24. 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

25. 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

25. 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

26. 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

- 27. A parasite is a species that
 - a. makes its own food.
 - b. has different pairs of sites.
 - c. must eat food or energy.
 - d. does not feed from other species.
- 28. 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.
- 29. .---- is an organism which provides nourishment & shelter for parasite.
 - a.Parasite b.Host c.Virus d.Animal

30. What is the incubation period of typhoid 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			
31. The causative of tuberculosis is			
(a) Virus			
(b) Bacterium			
(c) Malnutrition			
(d) Protozoan			
(e) None of these			
32. The BCG vaccine is administered for immunity against			
(a) Malaria			
(b) Tuberculosis			
(c) Jaundice			
(d) Hepatitis			
33. Any organism or agent that produces a disease is known as a			
A) Pathogen			
B) Commensal			
C) Reservoir			
D) Vector			
34. Which of the following diseases is spread via vector-borne transmission?			
a) Lyme disease			
b) Encephalitis			
c) Plague			
d) All of the above			
35. 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.			

36. 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.
37. Which test is done for the diagnosis of typhoid fever ?
a)ELISA test b.) Widal test c) Both a and b d.) Urine test
38. What is the structure of typhoid causing bacteria?
a.) Flagellated b.) Non-flagellated
b.) Rod shaped d.) Both (a) and (c)
39. The causative of Tuberculosis produces Tuberculin, it is a/an
(a) enzyme
(b) hormone
(c) endotoxin
(d) exotoxin
40. This is the main symptom of Tuberculosis
(a) Liquid formation
(b) Tubercle formation
(c) both (a) and (b)
(d) None of these
41 also called as lime butterfly *
a.Pyrilla perpusila
b.Callobruchus chinesis
c.Tribolium casaneum
d.Papilio demolus
42. 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

43.	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
44.	Pupation of Helicoverpa armigera takes place in
	a.Soil
	b.On nonhost plant
	c.Twig
	d.Gram pod
45.	Egg plug is made by female at the time of oviposition.
	a.Sitophilus oryzae
	b.Callobruchus chinensis
	c.Pyrilla purpusilla
	d.Papilio demolus
46.	Lichen is mutual relationship between
	a.Algae & Bryophyte
	b.Angiospern & fungus
	c.Algae & fungus
	d.Fungus & plant
47.	means eating at same table
	a.Commensalism
	b.Symbiosis
	c.Parasitism
	d.Proto cooperation
48.	Scientific name of pulse beetle is
	a.Tragoderma granarium b.Sitophilus oryzae
	c.Tribolium castaneum d.Rhizopertha dominica
49.	Common name of Triboleum castaneum is
	a.Red flour beetle b.Rice weevil c.Khapra beetle d.Saw toothed grain beetle

50 commonly called as rust red floor beetle/bran bug/flour beetle				
a.Tragoderma granarium b.Sitophilus oryzae				
c.Tribolium castaneum d.Rhizopertha dominica				
51. Lime swallow tail/chequered swalotail also referred as				
a.Sitophilus oryzae				
b.Callobruchus chinensis				
c.Pyrilla purpusilla				
d.Papilio demolus				
52. Which of the following is an example of most common sign of infection?				
a) Loss of appetite				
b) Malaise				
c) Pain				
d) Fever				
53. The site or natural environmental location in which a pathogen normally resides is called				
a) Source				
b) Reservoir				
c) Vector				
d) Hot zone				
54. Kadaknath poultry bird is generally reared for				
a.Egg purpose				
b.Meat purpose				
c.Both a and b				
d.Fighter bird				
55 are diagnostic test performed to detect Typhoid				
a.Widal test				
b.Typhidot				
c.Tubex test				
d.All of these				
56 is polyphagous pest which is major pest of cotton				
a.Helicoverpa armigera				
b.Phyrilla perpusila				

c.Sitophilus oryzae d.Papileo demolius 57. White leghorn birds are reared mainly for---a.Egg laying b.Meat c.Both Egg and meat d.Marketing 58. Elephantiasis is caused by a.Culex b.Wuchereria d.Aedes d.Plasmodium 59. One organism benefits and the other is harmed indicate ---- relationship a.Symbiosis b.Protocoperation c.Mutualism d.Parasitism 60. A symbiotic relationship in which both organisms benefit is . a.mutualism. b.commensalism. c.competition. d.parasitism. 61. 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 62. Which is an American breed of hen? a). Plymouth Rock.

b). Dorking.

d). Cochin.

c). Brown Leghorn.

Long answer question

- 1. Describe in detail life cycle, host, damage caused and economic importance of *Tribolium castaneum*?
- 2. Enlist Different breeds of fowl. Explain in detail different systems of Poultry
- 3. Describe in detail causative agent, transmission, symptoms and control measures of Typhoid?
- 4. Give an account of Management of Breeding stock
- 5. Describe in detail life cycle, host, damage caused and economic importance of *Pyrilla perpusilla*?
- 6. Give an account on management of broilers
- 7. Define parasite. Explain in detail about symbiosis and parasitism.
- 8. Describe in detail life cycle, host,damage caused and economic importance of *Sitophilus oryzae*?
- 9. Describe in detail life cycle, host, damage caused and economic importance of *Callosobruchus chinensis*?
- 10. Enlist Different breeds of fowl. Explain in detail management of Poultry
- 11. Describe in detail life cycle, host, damage caused and economic importance of *Papileo demolius*?
- 12. Describe in detail life cycle, host, damage caused and economic importance of *Helicoverpa armigera*?
- 13. Describe in detail causative agent, transmission, symptoms and control measures of Typhus fever?

Short answer questions

- 1. Preservation of Eggs
- 2. Mutualism
- 3. Exotic breeds of Fowl
- 4. Symbiosis
- 5. Parasitism

- 6. Typhidot test
- 7. Different systems for poultry farming
- 8. Economic importance of Helicoverpa armigera
- 9. Basic requirement of poultry housing
- 10. Nutrints of poultry bird
- 11. Feed management
- 12. Litter Management
- 13. Control measures of Syphilis
- 14. Control measures of Tuberculosis
- 15. Zoonosis
- 16. Egg processing
- 17. Poultry House
- 18. Commercial methods of Egg preservation
- 19. Environmental management in Poultry house

B.Sc. (Part-II) (Semester -IV) Examination, APRIL- 2023 Microbiology (Paper VIII) Basics in medical microbiology and immunology Sub. Code – 78914

Day and Date - Friday23/06/2023

Total marks- 50

Time-	2:30p.m.	104	1:30	p.m.

a) Morbidity ratec) Mortality rate

	questions choosing the correct alternatives given below
them.	10 Mark
1) Which of the following is s	ecretory antibody?
a) IgG 6) IgD	
c) IgA d)IgE2)	A hapten is
a) Immunogenie	b) Non-immunogenic
Carrier	d) None of the above
Cholera istype of ir	nfection.
a) Airborne	- Waterborne
c) Foodborne	d) Direct Contact
4) How many antigen binding	sites present on IgM?
a) One	b) Two
c) Five	√d) Teu
) Which of the following is f	irst scientifically approved vaccine?
a) Polio vaccine	b) Small pox vaccine
BCG vaccine	d) Tetanus vaccine
) Chemically antibodies are	
(a) Proteins	b) Lipids
c) Nucleotides	d) Carbohydrate
The occurrence of cases of	deaths in a population at specified period of times is know

b) Fertility

d) None of the above



8) Tears contain ______as an antibacterial agent.

	(a) I yeozyme	b) Interferon	
	c) Propositin	d) Complement	
4) W	ho develop the vaccine.		
	a) Alexander Fleming		
7	c) Robert Koch	d) Robert hook	
10)W	hich of the following at	ntibody plays role in hypersensitivity.	
	allgE	b) IgM	
	c) IgG	d) All of above	
Q2) A	ttempt any Two		20 Ma
1)	Describe in detail diff	erent types of infection.	•
2)	Explain in detail diffe	rent types of immunoglobulins. 58	
31	Describe in detail pre-	vention and control on microbial diseases.	
3) 4) 5)	Acquired immunity Immune response Epidemic disease Vector born transmiss Antigen. Virulence factors.		20 Mi

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