

Rayat Shikshan Sanstha's
D.P. Bhosale College, Koregaon, Satara

B.Sc. Part I Semester II

Paper – III Animal Diversity and Insect Vectors - I

Question Bank

Multiple Choice Questions

- 1) Rat belongs to the class

 - a) Reptilia b) Aves c) Birds d) Mammalia

- 2) ----- teeth of rat grow continuously throughout its life.

 - a) Incisors b) Molars c) Premolars d) All

- 3) ----- is a diffuse type of gland lying in the mesentery of the duodenal loop.

 - a) Liver b) Pancreas c) Salivary gland d) Thyroid gland

- 4) Islets of Langerhans secrete a hormone called -----

 - a) FSH b) TSH c) Insulin d) Testosterone

- 5) Malaria is ----- disease.

 - a) Bacterial b) Viral c) Protozoan d) Fungal

- 6) Discovered Plasmodium vivax the cause malaria.

 - a) Mendel b) Louis Pasteur c) Ronald Ross d) Robert Hook

- 7) Which of the following is/are the symptoms of pneumonic plague?

 - a) Severe cough b) Difficult breathing c) Chest pain d) All the above

- 8) Which methods can be used in the control of houseflies?

 - a) Packing tips tight to kill larvae b) Bacillus thuringiensis

c) Bed nets

d) Insecticide

9) Myiasis is a disease caused by

a) Flies b) Mites c) Ticks d) Caterpillar

10) Plague is caused by which bacteria?

a) Clostridium b) Mycobacteria c) Yersinia Pestis d) None of the above

11) How is dengue fever transmitted?

- a) Bite of an infected mosquito
- b) Bite of an infected male aedes mosquito
- c) Bite of an infected female anopheles mosquito
- d) Bite of an infected female aedes mosquito

12) The following are signs and symptoms manifested by a patient in the febrile phase of Dengue fever, except:

a) High fever b) Rash c) Petechiae d) Severe GI bleeding

13) Malaria is caused by -----

a) Entamoeba histolytica b) Leishmania c) Clostridium d) Plasmodium

14) The germ Plasmodium was discovered by -----

a) Sir Ronald Ross b) Golgi c) Charles Laveran d) Patric Manson

15) The sexual cycle of plasmodium is completed in -----

- a) The gut of mosquito b) RBC
- c) Liver tissue d) The salivary gland of mosquito

16) The most common of the human infecting malaria parasite is -----

- a) Plasmodium Ovale b) Plasmodium vivax
- c) Plasmodium falciparum d) Plasmodium malariae

- 17) Malarial parasite is best obtained from a patient -----
- a) An hour after rise of temperature
 - b) While temperature is rising sharply
 - c) After 24 hours when temperature is normal
 - d) After temperature becomes normal
- 18) Who is the primary host of malarial parasite?
- a) Man
 - b) Rat
 - c) Anopheles
 - d) None of the above
- 19) Which of the following is not a synthetic drug to cure malaria? -----
- a) Quinine
 - b) Paludrin
 - c) Pamaquine
 - d) Plasmochin
- 20) Quartan malaria is caused by -----
- a) Plasmodium vivax
 - b) Plasmodium Ovale
 - c) Plasmodium malariae
 - d) Plasmodium falciparum
- 21) Which of the following is not a mosquito borne disease?
- a) Malaria
 - b) Dengue fever
 - c) Yellow fever
 - d) Viral fever
- 22) The Dengue Virus is transmitted by -----
- a) Aedes sp.
 - b) Culex sp.
 - c) Anopheles sp.
 - d) Armiger sp.
- 23) Chikungunya disease transmitted by -----
- a) Armiger sp.
 - b) Aedes sp.
 - c) Culex sp.
 - d) Anopheles sp.
- 24) Anopheles mosquito has -----.
- a) White bands on abdomen
 - b) White bands on body
 - c) Blackish to dark brown color
 - d) Yellow bands on body
- 25) Larva of mosquitoes feed on -----
- a) Organic matter
 - b) Blood
 - c) Hair
 - d) Bone

26) Plasmodium vivax parasite infects -----.

- a) RBC b) WBC c) Platelets d) Stem cell

27) Rat flea transmits ----- disease.

- a) Dengue b) Malaria c) Plague d) Filariasis

28) Larval stage of house fly called -----.

- a) Nymph b) Caterpillar c) Grub d) Maggot

29) The Aedes mosquito transmits ----- disease.

- a) Dengue b) Malaria c) Smallpox d) Jaundice

30) Heart of rat is ----- chambered.

- a) One b) Two c) Three d) Four

31) The oxygen blood from the right and left lungs is collected by the -----

- a) Pulmonary artery b) Pulmonary vein
c) Coronary artery d) Corotid artery

32) Spleen acts as a reservoir for the -----

- a) W.B.Cs. b) R.B.Cs. c) Bile d) Iron

33) Malpighian body is a structure present in -----

- a) Testis b) Brain c) Kidney d) Urinary bladder

34) In rat brain ----- is subdivided to form five regions.

- a) Spinal cord b) Cerebellum c) Olfactory lobes d) Optic lobes

35) Which cell is without nucleus in rat?

- a) Neutrophil b) Basophil c) Erythrocyte d) Eosinophil

36) S. A. node is located in -----

- a) Right ventricle b) Sinus venosus c) Right auricle d) Left ventricle

Long Questions

- 1) Give an account on the external character of rat.
- 2) Describe the alimentary canal of rat.
- 3) Discuss in detail the digestion of food in the alimentary canal of rat
- 4) Give an account on the respiratory system and add a note on the mechanism of breathing in rat.
- 5) Describe with neat labeled diagram the arterial system of rat.
- 6) Describe with neat labeled diagram the venous system of rat.
- 7) What is excretion? Describe the excretory system of rat.
- 8) What is excretion? Describe the structure of nephron and add a note on physiology of urine Formation.
- 9) Give an account on the brain of rat.
- 10) Write an account on the spinal cord of rat.
- 11) Give an account on the reproductive system of male rat.
- 12) Describe the female reproductive system of rat.
- 13) Give the detailed account of life cycle of Plasmodium vivax and note on control measures of malaria.
- 14) Describe the control measures of arthropod vector of Dengue.
- 15) Write in brief about insect vector Mosquitoes.
- 16) Describe life cycle of mosquito with suitable diagram and write in brief on its control measures.
- 17) Describe life cycle of housefly with suitable diagram and write in brief on its control measures.

- 18) Explain in detail mode of infection of mosquito born disease Malaria.
- 19) Explain in detail mode of infection of mosquito born disease Dengue.
- 20) Explain in detail mode of infection of mosquito born disease Chikungunya.
- 21) Write in detail life cycle of House fly and explain Housefly born disease.
- 22) Explain in detail life cycle of Rat flea and Flea- borne disease plague.
- 23) Explain in detail life cycle of Rat flea and Flea- borne disease Typhus fever.
- 24) Describe life cycle of rat flea with suitable diagram and write in brief on its control measures.

Short Notes

- 1) The habit and habitat of rat.
- 2) External characters of male rat.
- 3) External characters of female rat.
- 4) Buccal cavity of rat.
- 5) V.S. of head of rat.
- 6) Digestion in stomach and intestine of rat.
- 7) Liver and pancreas of rat.
- 8) Food and feeding mechanism of rat.
- 9) Mechanism of respiration in rat.
- 10) Lungs of rat.
- 11) O₂ and CO₂ transport.
- 12) Blood of rat.
- 13) Hepatic portal system.

- 14) The structure of nephron.
- 15) Malpighian body.
- 16) Urine formation in rat.
- 17) Brain of rat.
- 18) Spinal cord of rat.
- 19) Eye muscles of rat.
- 20) T. S. of spinal cord
- 21) Structure of ear of rat.
- 22) Copulation and fertilization of rat.
- 23) Preventive and control measures of rat.
- 24) Explain mode of transmission and pathogenicity of Chikungunya.
- 25) Plague
- 26) Control measures of housefly
- 27) Life cycle of Myiasis
- 28) Control measures of mosquito
- 29) Symptoms of malaria.
- 30) Mode of infection of malaria disease.
- 31) Mode of infection of Dengue disease.
- 32) Mode of infection of Chikungunya disease.
- 33) Mode of infection of Filariasis disease.
- 34) Flea as an insect vector.
- 35) Write in brief on Plague.
- 36) Write in brief on Typhus fever.

37) Control measures of Rat flea.

38) Housefly born disease.

Seat No.	
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B.Sc part-I Sem-II (NEP-2020) Examination, Oct-Nov 2023
Subject-Zoology (Paper-III)
Subject code- 90227

Day and Date: Wednesday-1/11/2023.
Time-10.30am-12.30pm

Total marks-[40]

Q.1 Answer the following questions choosing the correct alternatives given below them. [8]

1. Rat belongs to class

- a) Reptilia b) Aves c) Amphibia d) Mammalia

2. What is the major mode of transmission of malaria.....

- a) Bite female anopheles mosquito b) Blood transfusion
c) Organ transplantation d) Bite of male anopheles mosquito

3.Teeth of rat grows continuously throughout its life.

- a) Incisors b) Molars c) Premolars d) All

4.is the causative agent of dengue.

- a) Female anopheles b) Aedes aegypti
c) Male anopheles d) Rat flea

5. Malpighian body is a structure present in.....

- a) Testis b) Brain c) Kidney d) Urinary bladder

6. Plague is caused by.....

- a) Rat flea b) House fly c) Mosquito d) none of these

7. Heart of rat is chambered.

- a) One b) Two c) Three d) Four

8. Plasmodium causes.....

- a) Dengue b) Malaria c) Chikungunya d) Plague

Q.2 Write Long answer (Any Two)

[16]

1. Describe the alimentary canal of rat.
2. Explain the causal organism, symptoms and preventive measures of dengue.
3. Describe the female reproductive system of rat.
4. Describe in brief control measures of flea.

Q.3 Write Short Notes on (Any Four)

[16]

1. Symptom of malaria
2. Blood of rat
3. Control measures of mosquito
4. Urine formation in rat
5. Lungs of rat
6. Diagnosis and treatment of chikungunya