

Total No. of Printed Pages: 02

SUBJECT CODE NO:- 6588
FACULTY OF SCIENCE & TECHNOLOGY
M. Sc (Sem-II)

Examinations March/April-2022 (To be held in June/July-2022)

Zoology

Protozoology II ZOO-207

[Time: 3:45 Hours]

[Max. Marks:80]

Please check whether you have got the right question paper.

N.B

- i. Part A is compulsory.
- ii. Attempt any five questions from Part B
- iii. Draw neat diagram whenever necessary

Part A

Q.1 Attempt the following multiple-choice questions.

20

1. In Trypanosomes _____ transcription.
 - a) RNA polymerase II
 - b) DNA polymerase
 - c) Restriction enzyme
 - d) Both b and c
2. Where do the sexual stages of malarial parasite develop in its life cycle?
 - a) Gut of mosquito
 - b) Brain of Human
 - c) RBC of Human
 - d) Liver of Human
3. Giardia cyst and trophozoite can be found in _____.
 - a) Blood
 - b) Small intestine
 - c) Liver
 - d) Brain
4. _____ is an intestinal flagellate.

a) Leishmania	b) E.coli
c) Trypanosoma	d) Retatomonas
5. Chilomastix mesnili is _____.

a) Pathogenic	b) Commensal
c) Parasitic	d) All of the above

6. White spot disease of fish is caused by _____.
 - a) Ichthyophtherius multifiliis
 - b) Piscionoodinium pillulare
 - c) Mycobacterium sp
 - d) Edwardsiella sp

7. Nosema bombycis causes the disease in silk worm.
 - a) Pebrine
 - b) Ich
 - c) white spot
 - d) Malaria

8. _____ is a member of phylum sarcomastigophorma
 - a) Myxo bolus
 - b) Trichomonas
 - c) B coli
 - d) Nosema

9. Chemical compounds involved in the process of metabolism known as _____.
 - a) Radicals
 - b) Metabolites
 - c) Catabolites
 - d) Intermediates

10. What is the maximum temperature for protozoa?
 - a) 10 degree C
 - b) 16 degree C
 - c) 40 degree C
 - d) 30 degree C

Part B

- | | | |
|-----|---|----|
| Q.2 | Describe evolutionary relatedness plasmodium sp. by comparative DNA analysis. | 12 |
| Q.3 | Give an account of factor influencing the distribution of protozoa. | 12 |
| Q.4 | Explain the disease caused by microspore and myxospora in fishes. | 12 |
| Q.5 | Describe life cycle pathogenicity and control measure of coccidiosis. | 12 |
| Q.6 | Explain metabolism in protozoan parasites with suitable examples | 12 |
| Q.7 | Describe immune response in protozoan parasites. | 12 |
| Q.8 | Write notes on (any two) | 12 |
| | <ol style="list-style-type: none"> a) Life cycle of <u>Balantidium coli</u> b) Structure of <u>Plasmodium</u> c) Surface Glycoproteins of <u>Trypanosoma</u> | |