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RNLKWC/P.G./CBCS/Zoo/IIS /203/22

2022

ZOOLOGY

[P.G.]

(M.Sc. Second Semester End Examination-2022)

PAPER- 203

Full Marks: 40

Time: 02 Hrs

*The figures in the right hand margin indicate marks
Candidates are required to give their answers in their own words as
far as practicable*

Illustrate the answers wherever necessary

Use separate Answer script in each Unit

Group – A Marks : 20

Molecular Biology

1. Answer any two questions from the following: 2x2= 4

- a) What Satalyses the opening and placement of sliding clamps on the DNA?
- b) What would be result if an organism's telomere is mutated and nonfunctional?
- c) Write the function of DNAB.
- d) What is Shine Dalgarno Sequences?

(2)

2. Answer any two questions from the following: $2 \times 4 = 8$

- a) How E.coli DNA replication is regulated by Dna A, ATP levels and seq A?
- b) Describe about the + RNA binding site of Ribosome.
- c) Write comparison between DNA Pol-I, II & III.
- d) Write about the charging of t- RNA

3. Answer any one question of the following: $1 \times 8 = 8$

- a) Describe the mechanism of RNA editing with diagram in Trypanosomatid.
- b) Write the name and function of maximum proteins / enzymes involved in prokaryotic replication.

Group – B Marks : 20

Parasitology

4. Answer any two questions from the following: $2 \times 2 = 4$

- a) What is phoresis? Give example.
- b) What is zoonosis? Give example.
- c) Write the difference between hard ticks and soft ticks.
- d) Define parasitism.

5. Answer any two questions from the following: $2 \times 4 = 8$

- a) Write a short note on giardiasis.
- b) Discuss host – parasite interactions on the basis of cellular and physiological aspect.

(3)

c) Define with proper example

- i) Symbiosis
- ii) Commensalism

d) Write a note on African sleeping sickness.

6. Answer any one question of the following: $1 \times 8 = 8$

- a) Draw and describe the life cycle of Schistosoma Sp. 8
- b) i) Mention the structure and composition of helminth cuticle. 4
ii) Write an explanatory note on Paragonimiasis. 4