REV-01 MSZ/81/86

> M.Sc. ZOOLOGY SECOND SEMESTER EVOLUTIONARY BIOLOGY MSZ-205

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

SET C

2023/06

Full Marks: 35

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Time: 15 mins.

Marks: 10

Choose the correct answer from the following:

 $1 \times 10 = 10$

- 3. Species that occur in different geographical regions separated by barrier are:
 - a. Allopatry

b. Sympatry

c. Parapertic

- d. Peripetric
- 4. What did Darwin explain in his book "The descent of man"?
 - a. Ancestry of man

b. Evolution of organism

c. Origin of life

- d. Production of man
- 5. New world monkey evolved from.....
 - a. North and Middle East

- b. South Africa
- c. South and Middle America
- d. Asia
- 6. Who proposed that Chemical Evolution preceded Biological Evolution?
 - a. Oparin and Haldane

b. Pasteur and Miller

c. Darwin and Wallace

- d. None of the above
- 7. The experiment that simulated conditions thought to be present on the early earth:
 - a. Hershey-Chase experiment
- b. Geiger-Marsden experiment

c. Miller-Urey experiment

- d. Schiehallion experiment
- In Australia, marsupials and placental mammals have evolved to share many similar characteristics. This type of evolution may be referred to as:
 - a. Adaptive Radiation

b. Divergent Evolution

c. Cyclical Evolution

- d. Convergent Evolution
- 9. Theory of Natural selection dwells on:
 - a. Role of environment in evolution
- Natural selection acting on favourable variations
- c. Change in gene complex resulting in heritable variations
- d. Inheritance of acquired characters

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- According to neo Darwinism, natural selection operates through?
 a. Fighting between organisms
 b. Variations
 c. Killing weaker organisms
 d. Differential reprocess

d. Differential reproduction

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(<u>Descriptive</u>)

Time: 1 hr. 15 mins.

[Answer question no.1 & any two (2) from the rest]

1. Explain the concept of Chemogeny.

2. Write a note on the factors affecting Hardy Weinberg Equilibrium.

3. What is Lamarckism? Explain its merits and demerits.

4. Write a note on the Evolutionary history of the genus *Homo*.

5. What is Species concept? Explain the different types of Isolating mechanisms.

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