

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

**SET  
C**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

Time: 15 mins.

Marks: 10

( Objective )

Choose the correct answer from the following:

1 × 10 = 10

- Which of the following *Australopithecine* sp. gave rise to the genus *Homo*?
  - Australopithecus afarensis*
  - Australopithecus boisei*
  - Australopithecus anamensis*
  - Australopithecus robustus*
- The new world monkeys evolved.....
  - About 30 million years ago
  - About 25 million years ago
  - About 35 million years ago
  - About 20 million years ago
- What happens during disruptive selection?
  - Three peaks are formed
  - Extreme value gets rejected
  - Average value gets selected
  - Members of both extreme are selected
- One of the important consequences of geographical isolation is:
  - No change in the isolated fauna
  - Preventing speciation
  - Speciation through reproductive isolation
  - Random creation of new species
- Which of the following is not included in natural selection?
  - Stabilizing selection
  - Directional selection
  - Disruptive selection
  - Technical selection
- Darwin and Wallace proposed which organic evolution sequence?
  - Variations, natural selection, overproduction, constancy of population size
  - Overproduction, variations, constancy of population size, natural selection
  - Variations, overproduction, constancy of population size, natural selection
  - Overproduction, constancy of population size, variations, natural selection
- .....was the name of the ship in which Darwin sailed around the world.
  - H.S.S Beagle
  - H.M.S Beagle
  - H.P.S Beagle
  - H.M.S Eagle
- Germplasm theory against Lamarck's principle, was given by:
  - Weismann
  - Darwin
  - Lamarck
  - Hugo de Vries
- What was the mode of respiration for the prokaryotes during biological evolution?
  - Aerobic
  - Anaerobic
  - Cellular
  - External

10. What were the first sole living molecules according to Oparin?
- a. Diploid
  - b. Coacervates
  - c. Mycoplasma
  - d. Bacteria

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**( Descriptive )**

Time : 1 hr. 15 mins.

Marks : 25

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

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|---|--------|
| 1. Write a short note on- Types of Speciation.  | 5      |
| 2. What is meant by Forces of Evolution? State the mechanism of the forces of evolution upon the species formation. | 2+8=10 |
| 3. What is Lamarckism? Differentiate between Darwinism and Neo-Darwinism.   | 10     |
| 4. Which ape is our closest relative? Compare apes with Hominids.   | 10     |
| 5. Write a note on the types of Isolation Mechanism.  | 10     |

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