

6th Semester Sessional Examination 2021

Zoology

(Major)

(Evolution and adaptation)

Paper: M-602

Full Marks: 30

Figures in margin indicates full marks for each question

All questions are compulsory

Q1. In a precipitation test, a rabbit antiserum immunized with human RBC would show ag-ab reaction with the blood of which species? (2)

- a.Pig
- b.Human
- c.Rabbit
- d. Mouse

Q2. The statement“Ontogeny recapitulates phylogeny” means (2)

- a. Development history of an individual repeats the evolutionary history of the species.
- b. Development history of a species repeats evolutionary history of the individual.
- c. Adults recapitulates metamorphosis at a later stage in life
- d. There is no evidence of evolution in embryology

Q3. Primitive atmosphere of the planet earth was (2)

- a. Highly reducing
- b. Highly oxidizing
- c. Non- reactive
- d. None of the above

Q4. Evolution of eukaryotes took place by developing organelles in predatory protocells by (2)

- a. Ingesting and digesting aerobic bacteria
- b. Engulfing and symbiotically establishing aerobic bacteria
- c. Ingesting and digesting halophile bacteria
- d. Engulfing and symbiotically establishing halophile bacteria

Q5. According to the hypothesis of Biochemical origin of life, life came to earth
(2)

- a. With meteorites from space as cosmozoa
- b. By Chemical evolution of biomolecules and protocell assembly in the ocean
- c. By spontaneous generation from manure and slime
- d. By special creation by a supernatural force.

Q6. Give the postulates of Lamarck's Theory of evolution. Discuss the criticisms against Lamarckism (5+5=10)

Q7. Give the postulates of Darwin's theory of evolution. Give some evidences supporting Darwinism. (5+5=10)