

(FOR THE CANDIDATES ADMITTED

22UZY612

DURING THE ACADEMIC YEAR 2022 ONLY)

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS): POLLACHI

END-OF-SEMESTER EXAMINATIONS: MAY 2025

BSC.ZOOLOGY(Aided)

MAXIMUM MARKS: 50

SEMESTER-V1

TIME : 3 HOURS

PART – III

22UZY612- ECOLOGY AND EVOLUTION

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(K1)

1. What is the main process involved in pedogenesis?
a) Weathering of rocks b) Deposition of sediments c) Soil compaction d) Leaching of minerals
2. In which relationship does only one organism benefit without harming the other?
a) Parasitism b) Commensalism c) Mutualism d) Competition
3. What was the energy source used in the Miller-Urey experiment to simulate lightning?
a) Heat From volcanic eruptions b) Ultraviolet radiation c) Electric sparks d) Nuclear radiation
4. Darwin's Finches from the Galápagos Islands are an example of _____
a) Co-evolution b) Adaptive radiation c) Artificial selection d) Genetic drift
5. Which dating method is most commonly used to determine the absolute age of a fossil?
a) Radiometric dating b) Stratigraphy c) Thermoluminescence d) Fluorine analysis

ANSWER THE FOLLOWING:-

(K2)

6. Define thermal stratification.
7. Explain parasitism.
8. What is meant by paleontology?
9. What is the main concept of Lamarckism?
10. Define fossils.

SECTION – B

(5 X 3 = 15 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K3)

11. a) Describe the process of pedogenesis and its significance in soil formation

(OR)

- b) Examine how temperature influences the metabolic rates of aquatic organisms

(CONTD 2)

