

BIOLOGY PAPER II

Time Allowed: 2:00 Hour

Total Marks 40

SECTION – B

(Chapter 24-25)

(6 × 2 = 12)

Note: Please write your answer in no more than four / five lines.

Q2: Attempt any SIX parts from the following. Three part from reasoning portion and three from non-reasoning portion. All parts carry equal marks.

Reasoning portion

- i. How we can differentiate between homologous organs and analogous organs
- ii. How prokaryotic cell is evolve into eukaryotic?
- iii. Why natural selection is more important for survival of organisms?
- iv. How vector is more important in biotechnology
- v. Why biogeochemical cycle is important for continuity of life on this planet

Non-reasoning portion

- vi. What is nitrogen fixation?
- vii. Define secondary succession
- viii. What is acid rain?
- ix. What is global warming?
- x. Write down the component which damage ozone layer

SECTION – C

(Chapter 26-27)

(2 × 3 = 6)

Note: Please write your answer no more than Six or Seven lines.

Q3: Attempt any TWO parts from the following. All parts carry equal marks.

- i. Role of vector in biotechnology
- ii. What is tissue culture
- iii. What is backcrossing

SECTION – D

(Chapter 22-23)

(2 × 8 = 16)

Note: Please write your answer no more than Twenty to Thirty lines.

Q3: Attempt any TWO parts from the following. All parts carry equal marks.

- i. What is mutation, its source, and types of mutation
- ii. What is law of segregation and its phenotypic and genotypic ratio
- iii. What is multiple alleles with human blood groups