

Marks : 48

☆ Subjective (Part-I) ☆

(Group I)

Time: 01:45

2. Write short answers of any FIVE parts. (5 × 2 = 10)
- (i) Define organ. Give one example.
 - (ii) What is meant by biosphere and zone of life?
 - (iii) What are quantitative observations? Give example.
 - (iv) What is meant by ratio and proportion?
 - (v) Write names of two endangered species in Pakistan.
 - (vi) Why viruses are not included in five kingdom system?
 - (vii) Write the difference between transmission electron microscope and scanning electron microscope.
 - (viii) Name the chemicals found in the cell wall of fungi and prokaryotes.
3. Write short answers of any FIVE parts. (5 × 2 = 10)
- (i) What is meant by metastasis?
 - (ii) What is the function of phragmoplast in plant cell?
 - (iii) Define karyokinesis.
 - (iv) What is activation energy?
 - (v) When does denaturation of enzyme occur?
 - (vi) Who discovered ATP and when he awarded Noble Prize?
 - (vii) How CO_2 concentration affects the rate of photosynthesis?
 - (viii) Define aerobic respiration.
4. Write short answers of any FIVE parts. (5 × 2 = 10)
- (i) Write any four sources of lipids.
 - (ii) What is scurvy? Write its two symptoms.
 - (iii) Describe two functions of oral cavity.
 - (iv) What is appendix? Write its one symptom.
 - (v) Differentiate between source and sink.
 - (vi) What is meant by Rh blood group system?
 - (vii) What is the difference between angioplasty and bypass surgery?
 - (viii) Write the symptoms of dengue fever.

☆ SUBJECTIVE (Part-II) ☆

Attempt any two Questions. Each question has 9 marks.

9 × 2 = 18

5. (a) Define cellular organization. Explain its three types.
(b) Explain the types of epithelial tissues.
6. (a) Write the effects of factors, temperature and pH on the rate of enzyme action.
(b) Interpret that ATP is the 'chief energy currency' of all cells.
7. (a) Define micro and macro nutrients. Also describe the role of nitrogen in plants life.
(b) Define transpiration. Also describe the factors affecting the rate of transpiration.