

**Marks : 48****☆ Subjective (Part-I) ☆****(Group II)****Time: 01:45**

2. Write short answers of any FIVE parts. (5 × 2 = 10)
- (i) What are parasites? (ii) Write the names of four books of Abdul Malik Asmai.
- (iii) Write any two examples of qualitative observations.
- (iv) How a biologist summarize results? (v) Define taxon and taxonomic hierarchy.
- (vi) Write any two characteristics of kingdom plantae.
- (vii) Differentiate between primary wall and secondary wall.
- (viii) Describe two functions of smooth endoplasmic reticulum.

3. Write short answers of any FIVE parts. (5 × 2 = 10)

- (i) Differentiate between benign tumors and malignant tumors.
- (ii) What is meant by phragmoplast in mitosis? (iii) What is meant by metastasis?
- (iv) Define enzyme. (v) Write any two uses of enzyme.
- (vi) Define photosynthesis. Also write its equation. (vii) Define oxidation and reduction.
- (viii) What is meant by lactic acid fermentation?

4. Write short answers of any FIVE parts. (5 × 2 = 10)

- (i) What is gastric ulcer? Write its causes.
- (ii) Define malnutrition. Also give names of its any two types.
- (iii) What do you mean by dietary fibers? Write its sources.
- (iv) Write the role of cardiac and pyloric sphincter.
- (v) Define pulmonary circulation and systematic circulation.
- (vi) Write two differences between arteries and veins.
- (vii) Why transpiration is necessary for plants? (viii) Which organism transmit dengue fever?

**☆ SUBJECTIVE (Part-II) ☆**

**Attempt any two Questions. Each question has 9 marks.**

**9 × 2 = 18**

5. (a) Write molecular level and tissue level of organization of organisms.  
(b) Differentiate between prokaryotic and eukaryotic cells.
6. (a) Write a note on mechanism of enzyme action.  
(b) What is the role of chlorophyll and light in photosynthetic process?
7. (a) Write the effects of malnutrition in humans.  
(b) Define transpiration. Also describe the factors affecting the rate of transpiration.