

Time: 2 Hours 40 Minutes

Section "B"

Marks: 32

Q.2 Attempt any EIGHT parts. All parts carry equal marks.

- Briefly explain the importance of fisheries.
- Do you think viruses are parasites? Justify your answers with examples.
- Who proposed cell theory? Also write its main points.
- What are specific types of cells which make the xylem to perform conduction of water?
- Enlist main events take place in S-phase of interphase.
- Write events occur in the following phases of mitosis.

Phase	Write only one event
Prophase	
Metaphase	
Anaphase	
Telophase	

- Why Lock and Key Model of enzyme action is important?
- How Pyruvic acids goes through a series of reactions in Krebs cycle?
- Discuss the role of dietary fiber in balanced diet.
- How do plants go through transpiration?
- Briefly explain systemic circulation.

Section "C"

Marks: 21

Notes: Attempt any THREE of the following questions. All questions carry equal marks.

- Briefly write the importance of proportion method in data analysis.
 - Why species of Musk deer and Indus river blind dolphin are reducing in Pakistan?
- Which cell organelles produce energy in prokaryotic cell? How it is different from eukaryotic cell?
 - How mitotic apparatus is formed in animal and plants cells?
- Draw label diagram of Cofactors of enzymes.
 - Explain Krebs cycle as an important step of aerobic respiration.
- Differentiate between organic fertilizers and inorganic fertilizers with the help of suitable examples.
 - Write one function of the following.
 - Superior vena cava
 - Inferior vena cava
 - Pulmonary vein
 - Valves of vein.