

Note: There are three sections in this paper i.e. Section A, B & C.

VERSION - B

Time Allowed: 20 Minutes

"Section-A"

Marks: 12

INSTRUCTIONS:

- Attempt this section on the MCOs Answer Sheet only.
- Use black ball point or marker for shading only one circle for correct option of a question.
- No mark will be awarded for cutting, erasing, over writing and multiple circles shading.

Q. 1. Choose the correct option i.e. A,B,C, or D.

1. One of the following is not a macromolecule
 - A Glucose
 - B Sucrose
 - C Fatty acid
 - D Protein
2. For the first time, who found plasmodium in the blood of malarial patient?
 - A Ronald Ross
 - B Laveran
 - C A.F.A King
 - D Mendal
3. A new kingdom i.e. protista was proposed by
 - A Whittaker
 - B Linnaeus
 - C Aristotle
 - D Ernst Haeckel
4. Maximum biodiversity is found in
 - A Forests
 - B Grasslands
 - C Deserts
 - D Mountains
5. The magnification of light microscope is
 - A 1000 X
 - B 500 X
 - C 1500 X
 - D 2000 X
6. Nervous tissue is composed of nerve cells which are called
 - A Nephrons
 - B Axun
 - C Dendron
 - D Neurons
7. During which phase of meiosis, crossing over occurs?
 - A Prophase - I
 - B Metaphase - I
 - C Anaphase - I
 - D Telophase - I
8. Pepsin in the stomach work best at a pH of
 - A 2
 - B 8
 - C 9
 - D 10
9. A car engine uses fuel for work to do. To carry out functions, a living cell uses
 - A Electric power
 - B Generator
 - C Heat energy
 - D ATP
10. Which of the following does not manufacture digestive juices?
 - A Oesophagus
 - B Stomach
 - C Pancreas
 - D Intestine
11. The cells which form platelets are
 - A Erythrocytes
 - B Leucocytes
 - C Bone marrow cells
 - D All of these
12. The branch of biology which deals with study of cells and their organelles is called
 - A Anatomy
 - B Taxonomy
 - C Histology
 - D Cytology

"Section-B"

Marks: 32

Q. 2. Write short answers of any Eight (8) of the following parts. Each part carries equal marks.

- (i) Define the following:
Biotechnology, Entomology, Immunology, Anatomy.
- (ii) What level of organization is represented by Volvox?
- (iii) What deductions were developed during the study of Malaria?
- (iv) Write the limitations of two kingdom system of classification.
- (v) What is Rough Endoplasmic Reticulum (RER)?
- (vi) Differentiate between Endocytosis and Exocytosis.
- (vii) What is Apoptosis? Explain with examples.
- (viii) What is the effect of concentration of substrate on enzyme activity?
- (ix) Why is ATP regarded as the currency of living cell?
- (x) Write any four functions of water in our body.
- (xi) What is translocation of food in plants?

"Section-C"

Marks: 21

Note:- Answer any Three (3) questions. Each question carries equal marks.

- Q. 3. (a) Define the following:
Biophysics, Biochemistry, Biometry, Bio-Economics
- (b) What is the status of viruses in classification?
- Q. 4. (a) Differentiate between Prokaryotic cell and Eukaryotic cell.
- (b) Write the significance of Mitosis.
- Q. 5. (a) Write the effect of temperature on enzyme activity.
- (b) Describe the mechanism of Photo Synthesis.
- Q. 6. (a) Write note on Proteins.
- (b) Differentiate between Athero Sclerosis and Arterio Sclerosis.