

Paper Code: _____

ESKP-ix1901
BIOLOGY (New Course) – 9th

P-418

Marks: 65

1	1
2	2
3	3

Time: 3 hours

Note: There are THREE Sections in this paper i.e. A, B & C. Attempt Section-A and return it to the Superintendent within the given time. No marks will be awarded for cutting, erasing and overwriting. Mobile Phones are strictly prohibited in Examination Hall.

Time: 15 minutes

Section-A

Marks: 12

QNo.1 Select the correct option and shade (A,B,C,D) in the given Bubble Answer Sheet.

- i. What is absorbed from the material when it is in the large intestine?
 A- Water B- Vitamins C- Salts D- All of these
- ii. Myocardial infarction is due to blockage of blood flow in _____.
 A- Aorta B- Pulmonary artery C- Coronary artery D- Hepatic artery
- iii. Deductions are made from _____.
 A- Hypothesis B- Experiment results C- Observations D- Solution of biological problem
- iv. Maximum biodiversity is found in _____.
 A- Forests B- Grass lands C- Deserts D- Mountains
- v. _____ are colorless plastids.
 A- Chloroplast B- Chromoplast C- Leucoplast D- None of these
- vi. Which one of the following is a compound tissue?
 A- Epidermis B- Xylum C- Ground D- Supporting
- vii. During which phase of meiosis I crossing over occurs?
 A- Anaphase-I B- Telophase-I C- Prophase-I D- Metaphase-I
- viii. Two sister chromatids are collectively called _____.
 A- Chromosome B- Centromere C- Multi-chromatid D- Homologous pair
- ix. In the structure of ATP the three phosphate groups are linked to:
 A- Ribose B- Glucose C- Adenine D- H₂O
- x. The body temperature at 104°F is known as critical because it causes _____.
 A- Nerves break down B- Boiling of body water
 C- Enzyme stop to work D- None of these
- xi. The branch of Biology which deals with the study of transmission of characters from parents to off springs is called _____.
 A- Entomology B- Genetics C- Anatomy D- Immunology
- xii. Which one of the following is not a macro molecule?
 A- Glucose B- Sucrose C- Fatty acids D- Protein

Note: Time allowed 2:45 hours

SECTION – B

Marks: 32

Q2: Answer any EIGHT parts. Each part carries equal marks.

- i. Define Parasitology, Cell Biology, Histology and Physiology.
- ii. What is unicellular organization?
- iii. Write the aims of classification.
- iv. Write the advantages of Binomial Nomenclature.
- v. Differentiate between Endocytosis and Exocytosis.
- vi. Write any four major reasons for Deforestation.
- vii. What is Necrosis?
- viii. In what way does an enzyme affect the chemical reaction i.e. catalysis?
- ix. What is Krebs Cycle?
- x. What is the role of Magnesium in plants?
- xi. List all parts (in order) of the human digestive system through which food passes.

SECTION – C

Marks: 21

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

- Q3: a) Write the contributions of Abdul Malik Aasmai and Bu Ali Sina in the field of Biology and Medicine. 4
- b) How human activities affect the biodiversity of an area? 3
- Q4: a) What is Plastids? Describe different types of plastids. 4
- b) What is Chiasma and what is its role in crossing over? 3
- Q5: a) What are the characteristics of enzymes? 4
- b) What is the role of Chlorophyll and sun light in Photosynthesis? 3
- Q6: a) Write the various reasons of Malnutrition. 3
- b) Describe the various factors affecting the rate of transpiration. 4