

Total Time: **3:00 Hours****Biology 8th**Total Marks: **75****Note: There are three sections in this paper i.e A, B & C.****VERSION: A****Instructions:**

- Please attempt Section-A on the MCQs Answer Sheet only.
- Only black ball point or marker may be used for shading the relevant circle.
- Please make sure that there is no cutting, over writing, erasing, or multiple circles shading.

Time Allowed: 20 Minutes**“Section – A”****Marks: 13****Q.1. Choose the correct option by filling in the circle.**

1) One of the following contain large number of cells but not a multicellular.

- ☐ Frog
 ☐ Volvox
 ☐ Mushroom
 ☐ Chamydomonas

2) According to five kingdom system of classification mushrooms belong to:

- ☐ Plantae
 ☐ Fungi
 ☐ Animalia
 ☐ Protista

3) which one is the first step in biological method

- ☐ Hypothesis
 ☐ Experiment
 ☐ Observations
 ☐ Deduction

4) Which one of the following is true about the statement of hypothesis?

- ☐ Logical
 ☐ All of them
 ☐ Possible answer
 ☐ On observation

5) The kingdom which contain Eukaryotic autotrophic organisms is.

- ☐ Protesta
 ☐ Monera
 ☐ Fungi
 ☐ None of them

6) Which of the following kingdom possess the simplest organism.

- ☐ Protesta
 ☐ Monera
 ☐ Fungi
 ☐ Plantae

7) In plants, which tissue makes new cells?

- ☐ Meristematic tissue
 ☐ Collenchyma tissue
 ☐ Epidermal tissue
 ☐ Ground tissue

8) The nervous tissue has the ability to

- ☐ Contract and relax
 ☐ Transmit the impulse
 ☐ Prepare secretion
 ☐ Provide energy

9) meiosis take place in which of the following organs?

- ☐ Testes
 ☐ Lungs
 ☐ Heart
 ☐ Stomach

10) Two sister chromatids are collectively called:

- ☐ Chromosome
 ☐ Centromere
 ☐ Multichromatid
 ☐ Homologous pair

11) The chemicals which are involved as catalysts inside the living bodies are:

- ☐ Carbohydrates
 ☐ Fats
 ☐ Proteins
 ☐ Starch

12) One of the following may function as coenzymes for the enzymes.

- ☐ Proteins
 ☐ Carbohydrates
 ☐ Vitamins
 ☐ DNA

13) During the process of regenrration, the type of cell division is:

- ☐ 1st meiotic Division
 ☐ Both meiotic divisions
 ☐ Mitosis
 ☐ All of them

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Marks: 53Total Time: 2:40 Hours

Section B

Marks: 32**Q2: Write short answer to any eight (8) of the following parts. All parts carry equal marks:**

- i. Name few Muslim Scientists and their contributions in the field of biology and medicine?
- ii. What level of organization is represented by Volvox?
- iii. How does deforestation lead to desertification?
- iv. How you can differentiate between kingdom Monera and Protista?
- v. What proposed the cell theory and what are the main points of the cell theory?
- vi. How cell membrane helps in maintaining equilibrium while exchanging.
- vii. In which types of cell, meiosis take place and why its important.
- viii. What is chiasma and what is its role in crossing over?
- ix. In which type of cells, meiosis take place and why it is important
- x. Differentiate between lock and key model and the induced-fit model.
- xi. What is meant by denaturation of enzymes
- xii. How are enzymes specific for the substrate?

Section C

Marks: 30**Note: Answer any three (3) questions. All question Carry equal marks:-**

- Q3:** (a) How to understanding of biology can be improved through the knowledge of geography, chemistry and state? Give Examples.
(b) Enlist the various levels of biological organization and explain it with an example
- Q4:** (a) Differentiate between inductive reasoning and deductive reasoning?
(b) Explain how biologists use scientific method to solve the mysteries of addressing the malarial problem?
- Q5:** (a) Differentiate between two kingdom system and five kingdom system along their advantages and disadvantages.
(b) Explain binomial Nomenclature. What are its advantages?
- Q6:** (a) Discuss different events of Meiosis 1 with the help of diagrams
(b) Explain different stage of mitosis with diagrams and at what stage, cytokinesis take place?