

Seat Number

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कठोर - 022

ZOOLOGY PAPER - II : ZOO - 112
Cell Biology
(115102)

P. Pages : 3

Time : Two Hours

Max. Marks : 60

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All questions are compulsory, Figures to the right indicate full marks.
5. Draw neat labelled diagrams wherever necessary.

1. A) Multiple choice questions **any six.**

6

- i) Cell Biology is the study of -----.
- a) Tissue b) Organ
c) Cell d) None of these
- ii) High lipid content is the characteristic of -----.
- a) Erythrocyte membrane
b) Myelin sheath membrane
c) Inner mitochondrial membrane
d) Outer mitochondrial membrane
- iii) The plasma membrane is -----.
- a) Permeable b) Selectively permeable
c) Impermeable d) Semi permeable membrane
- iv) Lysosomes are reservoir of -----.
- a) Secretory glycoproteins b) RNA
c) Fats d) Hydrolytic enzymes
- v) Meiosis is also called as ----- division.
- a) Reductional b) Equational
c) Longitudinal d) None of these
- vi) The aging also affects the -----.
- a) Glycolysis b) Agelysis
c) Glyco-phosphorolysis d) None of these

- B) Answer in one sentence any six.

- i) What is the name of scientist who first? Observed and named the term cell?
- ii) What is meaning of Isotonic solution?
- iii) What is mean by binucleate cell?
- iv) Cytoplasm.
- v) What is the long form of DNA?
- vi) What is mean by cytokinesis.
- vii) What are plasmids?
- viii) What is mean by perinuclear space?

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3. Attempt **any four** from following. 12

- i) Eukaryotic cell
- ii) Singer – Nicolson model of plasma membrane.
- iii) Osmosis
- iv) Exocytosis
- v) Anaphase
- vi) Apoptosis

4. Attempt **any three** from following. 12

- a) Sketch and label prokaryotic cell.
- b) Describe biological importance of diffusion.
- c) Sketch and label mitochondria.
- d) Structure and functions of Nucleus.
- e) Write significance of mitosis.

5. Describe in detail **any two**. 12

- a) Explain cellular theories of ageing.
- b) Explain structure and Functions of endoplasmic reticulum.
- c) Define meiosis? Enlist different stages of meiosis?
