

Seat Number

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Nov-2015

कणगा - 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 and figures to the right indicate full marks.
5. Draw neat labelled diagrams wherever necessary.

1. a) Multiple choice questions any six.

6

- i) The term cell was first used by-----
 - a) Z. Janssen
 - b) H. Janssen
 - c) Robert Hook
 - d) Schwann
- ii) Which of the following membrane has the largest amount of proteins.
 - a) Erythrocyte membrane
 - b) Myelin sheath membrane.
 - c) Inner mitochondrial membrane
 - d) Outer mitochondrial membrane.
- iii) The ribosomes are meant for -----
 - a) Phosphorylation
 - b) Respiration
 - c) Protein synthesis
 - d) Oxidation.
- iv) In cell cycle ----- phase is known as synthesis phase.
 - a) S-phase
 - b) G1-phase
 - c) G2-phase
 - d) M-phase
- v) Mitosis not occurs in -----
 - a) Roots
 - b) Shoots
 - c) Germ cells
 - d) Somatic cell

3. Attempt **any four** from following. 12
- i) Explain Danielli-Davson model.
 - ii) Nucleolus
 - iii) Golgi complex
 - iv) Ribosomes.
 - v) Metaphase
 - vi) Carcinogenesis
4. Attempt **any three** from following. 12
- i) Describe structure of Archaeobacteria.
 - ii) Biological Importance of osmosis.
 - iii) Structure and function of mitochondria
 - iv) Describe Eukaryotic cell.
 - v) Sketch and label cell cycle.
5. Describe in detail **any two**. 12
- i) Describe ultrastructure and functions of lysosomes.
 - ii) Explain apoptosis or programmed cell death.
 - iii) Describe structure and functions of Ribosomes.
