

Model Question paper

Cell Biology (Z) 3

11th Standard

Biology

Reg.No. :

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I. Answer all the questions.

II. Use blue pen only.

Time : 00:45:00 Hrs

Total Marks : 35

5 x 1 = 5

Part - A

- 1) The increase in size of optical image over the size of the object is known as
(a) limit of resolution (b) transmission (c) power of magnification (d) conductance
- 2) A three, dimensional image of the object can be produced using
(a) compound microscope (b) dark-field microscope (c) transmission electron microscope (d) scanning electron microscope
- 3) A unit membrane hypothesis for plasma membrane structure was provided by
(a) Overton (b) Daveson (c) Robertson (d) Nicholson
- 4) Which of the following is called cell respiratory organelle?
(a) Ribosome (b) Lysosome (c) Golgi bodies (d) Mitochondria
- 5) The number of nucleus (nucleii) in matured mammalian erythrocytes is
(a) one (b) many (c) two (d) nil

Part - B

7 x 2 = 14

- 6) What is 'limit of resolution' in the functioning of microscope?
- 7) What are vital stains?
- 8) What is autolysis?
- 9) What are the types of chromosomes based on the nature of their arms?
- 10) What is a 'fluid mosaic model' of a plasma membrane?
- 11) What is cancer?
- 12) What are Oncogenes? Give examples.

Part - C

2 x 3 = 6

- 13) Explain the various units of measurement in cell biology.
- 14) Provide the structure of golgi apparatus.

Part - D

2 x 5 = 10

- 15) Explain the causes of cancer.
- 16) Provide a detailed account on the organisation of cell nucleus.
