

Model Question paper

Cell Biology (Z) 1

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) In microscope, the light is focussed on the object through
(a) condenser lens (b) objective lens (c) ocular lens (d) oil immersion lens
- 3) In microscope, a nucleus is normally stained using
(a) Neutral red (b) Janus green B (c) Eosin (d) Hematoxylin
- 4) In cytological technique, Bouin's solution is used for
(a) fixation (b) dehydration (c) cleaning (d) embedding
- 5) In the plasma membrane, the lipid bilayers is covered by
(a) proteins (b) carbohydrate (c) water molecules (d) nucleic acid

Part - B

7 x 2 = 14

- 6) Name the new branches of science related to cytology.
- 7) What is 'limit of resolution' in the functioning of microscope?
- 8) Name the various parts of a compound microscope.
- 9) What are vital stains?
- 10) Name two biochemical processes happening within the mitochondria.
- 11) What is metastasis?
- 12) What are Oncogenes? Give examples.

Part - C

2 x 3 = 6

- 13) Write notes on cell theory.
- 14) Explain the various units of measurement in cell biology.

Part - D

2 x 5 = 10

- 15) Explain the causes of cancer.
- 16) Describe how a specimen is prepared for microscopical study.
