

Model Question paper
Cell Biology(B) 3
11th Standard

Biology

Reg.No. :

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I. Answer all the questions.

II. Use blue pen only.

Time : 01:30:00 Hrs

Total Marks : 55

10 x 1 = 10

Part - A

- 1) The process of changing the form in order to carry out a specialized function is called.....
(a) differentiation (b) growth (c) cell division (d) cell elongation
- 2) Phagocytosis is also known as-----.
(a) cell eating (b) cell death (c) cell drinking (d) cell lysis
- 3) The spaces inside the folds of ER membrane are known as.....
(a) thylakoids (b) cisternae (c) mesosomes (d) periplasmic space
- 4) These are colour plastids
(a) Chromoplasts (b) Chloroplasts (c) Elaioplasts (d) Leucoplasts
- 5) One Angstrom($\text{\AA}$) is equal to
(a) 10^{-5}m (b) 10^{-7}m (c) 10^{-8}m (d) 10^{-10}m
- 6) 'The plasma membrane is made of fatty substance' was suggested first by
(a) Overton (b) Danielli (c) Robertson (d) Singer and Nicholson
- 7) The number of mitochondria in the oocyte of amphibian is about
(a) 140,000 (b) 300,000 (c) 500-1600 (d) 120
- 8) Total number of chromosomes in the somatic cell of Drosophila is
(a) 32 (b) 12 (c) 8 (d) 48
- 9) Which of the following is not the characteristic of cancer?
(a) Uncontrolled growth of cells (b) Cancer cells are less adhesive (c) Distinct nucleolus (d) Small sized nucleus
- 10) The addition of wall materials within the existing one is called
(a) accretion (b) intussusception (c) apposition (d) deposition

Part - B

10 x 2 = 20

- 11) What are micellae?
- 12) What are the uses of plasmid?
- 13) Define Diffusion / Osmosis.
- 14) Distinguish uniport transport method from passive diffusion>
- 15) What are gram negative and Gram positive bacteria?
- 16) What is mean by magnification?
- 17) Why do you call mitochondria as 'power houses' of the cell?
- 18) What Retino blastoma? How is it cause?
- 19) What are the different types of cancer according to the type of tissue affected?
- 20) Distinguish the ribosomes of prokaryotic cells from that of eukaryotic cells

Part - C

5 x 3 = 15

- 21) What is Plasmodesmata? Explain.
- 22) Discuss the function of cell wall.
- 23) Draw a plant cell and label its parts.
- 24) Describe Uniporter catalyzed transport.
- 25) Write notes on: significance of mitosis/ significance of meiosis

Part - D

2 x 5 = 10

- 26) Describe Mitosis. Add a note on its significance
- 27) Describe the structure of chromosome
