

Model Question paper
Cell Biology(B) 2
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) Cytokinesis is the division of.....
(a) cytoplasm (b) nucleus (c) chloroplast (d) centriole
- 2) Terminalisation takes place during.....
(a) Pachytene (b) Zygotene (c) Leptotene (d) Diakinesis
- 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) Total number of chromosomes in the somatic cell of Drosophila is
(a) 32 (b) 12 (c) 8 (d) 48
- 6) According to Pott, Cancer formation is associated with
(a) Shale oil (b) Radioactive elements (c) Soot (d) Cigarette smoke
- 7) The oncogene that causes breast and ovarian carcinomas is
(a) hox-II (b) erb B-2 (c) L-myc (d) ret
- 8) The tissue affected by carcinoma is
(a) Bone tissue (b) Blood tissue (c) Lymph tissue (d) Epithelial tissue
- 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 intrinsic proteins?
- 12) What is the role of osmosis in plants?
- 13) Define Phagocytosis / Pinocytosis / Exocytosis.
- 14) Name any two common properties shared by chloroplasts and mitochondria.
- 15) Mention the chromosomal numbers of some animals.
- 16) Mention the factors and the type of cancer caused by environmental and occupational hazards.
- 17) What is meant by monoclonal origin?
- 18) What are suppressor genes? Give examples.
- 19) What are the different types of cancer according to the type of tissue affected?
- 20) Define: resolving power of a microscope

Part - C

5 x 3 = 15

- 21) Explain the ultrastructure of chloroplasts.
- 22) Describe Uniporter catalyzed transport.
- 23) Describe active transport of substances across the membrane.
- 24) What are the functions of plasma membrane?
- 25) Write notes on: significance of mitosis/ significance of meiosis

Part - D

2 x 5 = 10

- 26) Explain the various stages of I-Meiosis/II-Meiosis.
- 27) Describe the structure and functions of endoplasmic reticulum
