Model Question paper

Cell Biology(B) 1

11th Standard

Biology

Reg.No. : | | | | | | |

I. Answer all the questions.

II. Use blue pen only.

Time : 01:30:00 Hrs

Total Marks : 55

Part - A

10 x 1 = 10

1) The process in which DNA is constantly read out into a particular set of mRNA is called .....

(a) translation (b) protein synthesis (c) DNA duplication (d) transcription

2) 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

3) An exception to cell theory is.....

(a) fungi (b) bryophyte (c) seed plant (d) pteridophyte

4) The extrachromosomal DNA found in the bacterium E.coli is called.....

(a) mesosome (b) nucleoid (c) incipient nucleus (d) plasmid

5) Phagocytosis is also known as----------.

(a) cell eating (b) cell death (c) cell drinking (d) cell lysis

6) Compound Microscope was first invented by .....

(a) Galileo Galilei (b) Van Leeuwenhoek (c) Francis Janssen and Zacharias Janssen (d) Marcello Malpighi

7) The suitable medium used to used to stain the chromatin filament is .....

(a) Bouin's solution (b) Formaldehyde (c) Carnoy's fluid (d) Canada balsam

8) In eukaryotic cells, the fatty acids are degraded in .....

(a) Peroxysomes (b) Ribosomes (c) Lysosomes (d) Chloroplasts

9) Circular DNA molecules are seen in .....

(a) Cytoplasm (b) Nucleus (c) golgi bodies (d) mitochondria

10) Endoplasmic reticulum, was first discovered by

(a) Palade (b) Roberts (c) Porter (d) Danielli

Part - B

10 x 2 = 20

11) Name of the three important components of a typical plant cell wall.

12) What is PCD?

13) What are bordered pits?

14) Name any two exceptions to cell theory.

15) What are extrinsic proteins?

16) What are gram negative and Gram positive bacteria?

17) Give fundamental differences between light microscope and electron microcope.

18) What is the objective of staining procedure?

19) List the function of centrioles.

20) What is meant by malignant cancer?

Part - C

5 x 3 = 15

21) What is Plasmodesmata?Explain.

22) What are pits?Explain their types.

23) Discuss the function of cell wall.

24) Explain cell cycle.

25) Draw a plant cell and label its parts.

Part - D

2 x 5 = 10

26) Describe the development of cell theory.

27) Describe how the quality of microscope is improved.

****