

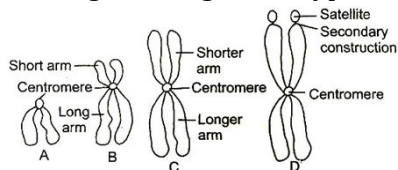
Class : XIth
Date :

Subject : BIOLOGY
DPP No. : 5

Topic :- Cell the Unit of Life

- Ribosomal RNA (*r*RNA) is synthesised in
a) Nucleolus b) Nucleosome c) Cytoplasm d) Ribosome
- Which of the following organelles does not contain RNA?
a) Chromosome b) Plasmalemma c) Nucleolus d) Ribosome

- In the given diagram of types of chromosomes, identify A-D



- A-Telocentric chromosome, B-Acrocentric chromosome, C-Submetacentric chromosome, D-Metacentric chromosome
 - A-Acrocentric chromosome, B-Telocentric chromosome, C-Metacentric, chromosome, D-Submetacentric chromosome
 - A-Submetacentric chromosome, B-Metacentric chromosome, C-Telocentric chromosome, D-Acrocentric chromosome
 - A-Metacentric chromosome, B-Submetacentric chromosome, C-Acrocentric chromosome, D-Telocentric chromosome
- Read the following statements and identify the correct option given.
 - In prokaryotic cell, the nuclear membrane, chloroplast, mitochondria, microtubules and different kinds of pili are absent.
 - In eukaryotic cell, the nuclear membrane, chloroplast, mitochondria and pili are present.
 - In prokaryotic cell, the ribosome is of 70 S type and in mitochondria of eukaryotic animal cell, the ribosome is 80 S type
 - I and II are wrong; III is correct
 - I is correct; II and III are wrong
 - I and III are correct; III is wrong
 - I, II and III are wrong
 - Schleiden (1838) proposed that cell is the structural and functional unit of life. His idea was a/an
a) Assumption b) Generalisation c) Hypothesis d) Observation

6. In DNA, which of the following is absent?
 a) Adenine b) Thymine c) Guanine d) Uracil
7. Which of the following enzymes has/have haeme as a prosthetic group?
 I. Catalase
 II. Carboxypeptidase
 III. Succinic dehydrogenase
 IV. Peroxidase
 a) I only b) I and II c) II and III d) I and IV
8. In prokaryotes, chromatophores are
 a) Specialised granules responsible for colouration of cells
 b) Structures responsible for organising the shape of the organism
 c) Inclusion bodies lying free inside the cells for carrying out various metabolic activities
 d) Internal membrane system that may become extensive and complex in photosynthetic bacteria
9. hnRNA undergoes two additional processing. Out of which, in one of them an unusual nucleotide (methyl guanosine triphosphate) is added to the 5' – end of hnRNA. This is known as
 a) Capping b) Tailing c) Splicing d) Termination
10. In prokaryotic cells, an organelle like the one is eukaryotic cells is
 a) Lysosomes b) Golgi apparatus c) Ribosomes d) Plastids
11. Amino acid binding site in tRNA is
 a) 5' end b) Anticodon loop c) CCA 3' end d) DHU loop
12. Protoplasm of a eukaryotic cell is called
 a) Chloroplast b) Protoplast c) Cytoplasm d) Endoplast
13. In which cell organelles, a lipoprotein covering is absent?
 a) Ribosomes b) Lysosomes c) Mitochondria d) Peroxisomes
14. The infoldings in mitochondria are known as
 a) Cristae b) Matrix c) Cisternae d) Thylakoids
15. Which one is the correct statement about the bacterial cell envelope?
 a) The outermost cell wall is followed by glycocalyx and then the plasma membrane
 b) Cell envelope is chemically very simple and consists of only plasma membrane
 c) The outermost glycocalyx is followed by cell wall and plasma membrane
 d) The outermost glycocalyx is followed by plasma membrane and then the cell wall

16. Arrange the following cells in an ascending order of their size and select the correct option
I. Ostrich eggs
II. Mycoplasma
III. Bacteria
IV. Human RBCs
a) II→III→IV→I b) I→IV→III→II c) II→I→IV→III d) I→II→IV→III
17. Eukaryotes includes
a) Protists b) Fungi c) Plants d) All of these
18. Which enzyme joins DNA fragments?
a) DNA ligase b) DNA polymerase c) DNA gyrase d) Topoisomerase
19. What is C-value paradox?
a) Haploid DNA content b) Huge variations in C-values for all species
c) Constant C-value for all species d) Diploid DNA content
20. In fluid mosaic model of plasma membrane
a) Upper layer is non-polar and hydrophilic
b) Polar layer is hydrophobic
c) Phospholipids form a bimolecular layer in middle part
d) Proteins form a middle layer

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