

[2]

(b) Give an account of structure of Eukaryotic Chromosomes.

4.(a) Describe the cell cycle and the mechanism of mitosis.

OR

(b) What is signal sequences ? Give an account of targeting of proteins to mitochondria and chloroplast.

5.(a) Give an account of different experiment proofs of the semiconservative replication of DNA.

OR

(b) Describe transcription and post-transcriptional modification.

6.(a) Illustrate the mechanism of protein synthesis in Eukaryotes with diagrams.

OR

(b) Give an account of translational proof reading and post translational modification of proteins.



SA - 40

2023

Full Marks - 70

Time - 3 Hours.

The figures in the right-hand margin indicate marks.

Answer ALL questions.

Section - A

1. Write notes on following : [5×4=20]
- (a) Active transport across plasma membrane.
 - (b) Nuclear membrane and transport trafficking.
 - (c) Mechanism of programmed cell death.
 - (d) Role of polymerase in DNA replication.
 - (e) Genetic code

Section - B

2. Give an account of structure and models of Plasma membrane. [5×10=50]

OR

Describe the properties and functional role of plasma membrane.

- 3.(a) Illustrate the structure of Mitochondria and electron transport in it.

OR

P.T.O.