



SHIKSHA CLASSES

Subject : Biology

Question Paper

Total Marks :25

Class : XI

7 : Cell Division

Time : 1 Hour

SECTION A

Q.1 : Choose the correct option : 4

- i) Synapsis is pairing of
- a) any two chromosomes
 - b) non – homologous chromosomes
 - c) sister chromatids
 - d) homologous chromosomes
- ii) Replication of DNA takes place during
- a) prophase b) S-phase
 - c) G₂-phase d) Interkinesis
- iii) Crossing over takes place in the stage.
- a) Leptotene b) Zygotene
 - c) Pachytene d) Diplotene
- iv) How many chromatids are present in anaphase – I of meiosis – I of a diploid cell having 20 chromosomes?
- a) 4 b) 6 c) 20 d) 40

Q.2 : Answer the following : 2

- i) What is cell cycle?
- ii) What is karyotype?

SECTION B

: Answer the following : (ANY 3) 6

- Q.3 :** Draw a labelled diagram of metaphase and write explanation.
- Q.4 :** Write the significance of mitosis.
- Q.5 :** Differentiate between meiosis I & meiosis II.
- Q.6 :** What happens during diakinesis?
- Q.7 :** Explain Anaphase-I with a neat labelled diagram.

SECTION C

: Answer the following : (ANY 3) 9

- Q.8 :** What is Homotypic division? Explain its phases.
- Q.9 :** **Write a note on :** a) Pachytene
b) Diplotene.
- Q.10 :** What is cell division? Mention the types of cell division.
- Q.11 :** With the help of suitable diagram, describe the cell cycle.
- Q.12 :** i) What is necrosis?
ii) What is apoptosis?
iii) Which type of cell division is known as reductional division.

SECTION D

: Answer the following : (ANY 1) 4

- Q.13 :** Explain the phases of Prophase - I with diagram.
- Q.14 :** With the help of suitable diagram, explain karyokinesis in brief.

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