BIOLOGY

NCERT - FULL MARKS BIOLOGY(TAMIL)

CELL CYCLE AND CELL DIVISION

Question

1. What is the average cell cycle span for a mammalian cell?

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2. Distinguish cytokinesis from karyokinesis.

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3. Describe the events taking place during interphase. Answer

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4. What is G_0 (quiescent phase) of cell cycle?

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5. Why is mitosis called equational division ?

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6. Name the stage of cell cycle at which one of the following events occur:

(i) Chromosomes are moved to spindle equator

(ii) Centromere splits and chromatids separate

(iii) Pairing between homologous chromosomes takes place

(iv) Crossing over between homologous chromosomes takes place

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7. Describe the following: (a) synapsis (b) bivalent (c) chiasmata

Draw a diagram to illustrate your answer.

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8. How does cytokinesis in plant cells differ from that in animal cells?

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9. Find examples where the four daughter cells from meiosis are equal in size and where they are found unequal in size.

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10. Distinguish anaphase of mitosis from anaphase I of meiosis.

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11. Differentiate between mitosis and meiosis.

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12. What is the significance of meiosis ?

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13. Discuss with your teacher about

(i) haploid insects and lower plants where cell-division occurs, and

(ii) some haploid cells in higher plants where cell-division does not occur.

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14. Can there be mitosis without DNA replication in S phase?

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15. Can there be DNA replication without cell division?

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16. Analyse the events during every stage of cell cycle and notice how the following two parameters change

(i) Number of chromosomes (N) per cell

(ii) Amount of DNA content (C) per cell Answer

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