BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

CELL CYCLE AND CELL DIVISION

One Mark Questions And Answers

1. What is karyokinesis?

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2. What is interphase?

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3. What is synapsis?

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4. What are Chiasmata?

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5. Who first described mitosis in plants?

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6. What are the two stages in cell cycle?

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

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8. Can there be DNA replication without cell division?

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

10. Between a prokaryote and a eukaryote, which cell has a shorter cell division time?

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11. Which of the phase of cell cycle is of longer duration?

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12. Name the stain commonly used to colour chromosomes.

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13. Which tissue of animals and plants exhabits meiosis?

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14. At what stages of cell cycle does DNA synthesis take place.

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15. Smaller, liquid soluble molecules diffuse faster through cell membrane, but the movement of hydrophilic substances is facilitated by certain transporters which are chemically...

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Two Marks Questions And Answers

1. Write the significance of Mitosis/Metosis?

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2. Write any two differences between mitosis and meiosis.

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3. Distinguish cytokinesis from karyokinesis.

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

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5. Why is mitosis called equational division?

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

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7. 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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8. What is the significance of meisis?

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9. 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.

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10. Label the diagram and also determine the stage at which this stucture is visible.

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Three Marks Questions And Answers

1. Describe the events taking place during interphase.

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2. Name the stage of the cell cycle at which, each one of the following events occur :

Chromosomes are moved to spindle equator.

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3. Name the stage of the cell cycle at which, each one of the following events occur :

Centromere splits and chromatids separate.

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4. Name the stage of the cell cycle at which, each one of the following events occur :

Pairing between homologous chromosomes takes place.

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5. Distinguish anaphase of mitosis from anaphase I of meisos.

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Five Marks Questions And Answers

1. Explain with a neat labelled diagram the process of meiosis.

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2. Describe the following :

Synapis.

Draw a diagram to illustrate your answer.

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3. Describe the following :

Bivalent.

Draw a diagram to illustrate your answer.

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4. Describe the following :

Chiasmata.

Draw a diagram to illustrate your answer.

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