



INDIAN SCHOOL NIZWA
Class XI – BIOLOGY Ch-10 Cell cycle and cell division MCQs

Question 1. Golgi complex and endoplasmic reticulum cannot be seen during:

- (a) late telophase (b) late prophase. (c) early anaphase (d) late metaphase

Question 2. Cell plate grows from:

- (a) walls to the centre. (b) centre to the walls (c) in patches (d) simultaneously.

Question 3. Choose the correct sequence. A. Chromatin condensation B. Protein synthesis C. Duplication of centrioles D. Centrioles moves towards opposite poles

- (a) C, A, B, D (b) C, B, A, D. (c) C, D, B, A (d) A, C, D, B

Question 4. If you are provided with root-tips of onion in your class and are asked to count the chromosomes which of the following stages can you most conveniently look into:

- (a) Prophase (b) Anaphase (c) Telophase (d) Metaphase.

Question 5. Karyokinesis is the term used for:

- (a) division of cytoplasm (b) division of nucleoplasm (c) division of nucleus
(d) separation of daughter chromosomes.

Question 6. During which stage the chromosomes first become visible.

- (a) Anaphase (b) Metaphase (c) Prophase. (d) Telophase

Question 7. In mitosis, nuclear envelope and nucleolus disappear during:

- (a) Metaphase (b) Interphase (c) Prophase. (d) Telophase

Question 8. Arrange the following events of meiosis in the correct sequence: I.

Terminalization II. Crossing over III. Synapsis IV. Disjunction of genomes. The correct sequences:

- (a) II, I, IV, III (b) III, II, I, IV. (c) IV, III, II, I (d) I, IV, III, II

Question 9. The major event that occurs during the anaphase of mitosis, which brings about the equal distribution of chromosomes, is

- (a) splitting of the centromeres. (b) splitting of the chromatids (c) replication of the genetic material (d) condensation of the chromatin

Question 10. G₀ stage is part of

- a) G₁ phase b) G₂ phase c) M phase d) Not appear of cell cycle.

Question 11. Meiosis occurs for the human female in _____.

- (a) Pancreas (b) Liver (c) Ovary. (d) Kidney

Question 12.

Choose the correct sequence. A. Pachytene B. Zygotene C. Leptotene D. Diakinesis E. Diplotene.

- (a) C, B, A, D, E (b) C, A, B, E, D (c) C, B, A, E, D. (d) D, B, C, E, A

Question 13. How many chromosomes are there in onion root tip cell?

- (a) 06 (b) 16. (c) 26 (d) 36

Question 14. Lampbrush chromosomes are observed in

- (a) Mitotic prophase (b) Mitotic metaphase (c) Meiotic metaphase (d) Meiotic prophase.

Question 15. Which of the following cellular structures always disappears during mitosis and meiosis?

- (a) Plasma membrane (b) Nucleolus and nuclear envelope. (c) Plastids (d) none of these.

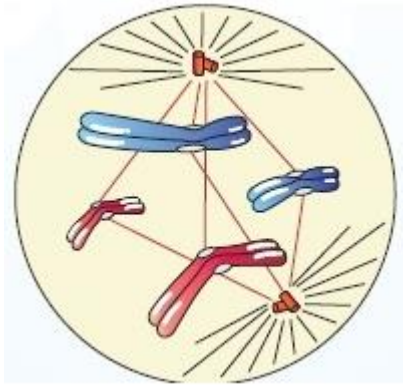
Question 16. Centromere is a constituent of:

- (a) Ribosome (b) ER (c) Chromosome. (d) Mitochondrion.

Question 17. In which phase of cell cycle, proteins are synthesised?

- (a) G_0 (b) G_1 (c) G_2 . (d) S

Question 18.



Which phase of cell cycle is shown in the above picture?

- (a) Early prophase (b) Early metaphase. (c) Early telophase (d) Early anaphase

Question 19. The stage in which daughter chromosomes move toward the poles of the spindle

- (a) Anaphase. (b) Metaphase (c) Prophase (d) Telophase

Question 20. Synaptonemal complex dissolves in _____ stage.

- (a) Zygotene
(b) Pachytene
(c) Diakinesis
(d) Diplotene.