



Yakeen NEET 2.0 - 2026

Cell Cycle and Cell Division Botany By Rupesh Chaudhary Sir

Practice Sheet - 02

1. M phase
 - A. most dramatic period
 - B. not involve reorganisation of component
 - C. number of chromosomes same but not DNA amount in daughter cell as parents
 - D. Resuctional divisionOptions
(A) 1
(B) 2
(C) 3
(D) 4
2. Correct
(A) mitosis divided into 5 stages of karyokinesis
(B) cell division is not progressive
(C) clear cut lines can be drawn between different stages of cell division
(D) None
3. Prophase
(A) DNA are distinct but intertwined
(B) initiation of condensation material occur
(C) chromosome material become tangled
(D) Centrosome moves towards opposite pole in plant cell
4. Prophase
(A) Chromosome consist of two chromatid connected by kinetochore
(B) Each centrosome radiate microtubule called aster in plant
(C) two aster with spindle called mitotic Apparatus
(D) GB, nucleolus, Nuclear membrane, ER disappear in early prophase
5. Metaphase
(A) complete disintegration of NM, nucleolus is beginning of second phase of cytokinesis
(B) chromosomes present in cytoplasm and not fully condensed
(C) morphology of chromosome easily studied
(D) one chromosome consist of one chromatid
6. Correct
 - A. Large disc shape, protein structure present on centromere : kinetochore
 - B. It helps in attachment of spindle fibre
 - C. all chromosome arranged at equator
 - D. plane of alignment of chromosome at metaphase called metaphasic plate
 - E. 2 metaphasic plate formedOptions
(A) 1 (B) 2
(C) 3 (D) 4
7. Anaphase (incorrect)
 - A. at end all chromosome split simultaneously & two daughter chromatid formed
 - B. daughter chromosome moves towards opposite pole
 - C. centromere trailing behind & arms leading edge
 - D. chromosome number becomes double as compare to metaphaseOptions
(A) 1 (B) 2
(C) 3 (D) 4
8. Telophase Incorrect
(A) At beginning of final stage of cytokinesis chromosome decondense & lose their individuality
(B) chromatin material collect at each pole
(C) Nuclear membrane nucleolus ,ER reform
(D) None



Answer Key

1. (A)
2. (D)
3. (B)
4. (C)

5. (C)
6. (C)
7. (B)
8. (A)



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