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Class – B.Sc.–1<sup>st</sup> (Medical)

Subject – Cell Biology

Paper – II-A Bot

Time Allowed : 3 Hours

Maximum Marks : 35

Attempt any 5 questions. Each carries 7 Marks. Q.1 is compulsory.

1. (i) Peroxisome structure  
(ii) Kinetochore  
(iii) Nucleolus  
(iv) Holocentric chromosome  
(v) Duplication  
(vi) Tonoplast  
(vii) Karyotheca 7 × 7 = 7
2. Write short notes on –
  - (a) Nucleus
  - (b) ER
3. What is polyploidy? Discuss its role in plant breeding.
4. What is extranuclear genome? Explain plastid DNA inheritance with example.
5. Who coined the term chromosome? What is meant by chromosomal alterations? Describe any one of them with significance.
6. Describe
  - (a) Plasmids
  - (b) Vacuoles
  - (c) Golgi bodies.

7. (a) What do you mean by sex chromosomes? In what way are these different from other chromosomes? Explain.
- (b) Giant chromosomes.
8. Describe –
- (a) Difference between Deletion and Duplication.
- (b) Fluid mosaic model of plasma membrane.

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