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SUBJECT CODE NO: - BB-2411
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. (CBCGS)(Pattern 2022) T.Y SEM V
Examination November / December 2024
Botany-XVII Cell Biology and Molecular Biology

[Time: 1:30 Hours]**[Max. Marks:40]**

Please check whether you have got the right question paper.

N. B

- 1) Attempt all questions
- 2) All questions carry equal marks
- 3) Draw neat and Well labelled diagram wherever necessary.

Q.1 Describe in detail structure and function of Golgi complex**10****Describe in brief.**

- a) Prokaryotic cell
- b) Z-DNA

OR**Q.2 Define mitosis? Describe with different stages in mitosis****10****Describe in briefs.**

- a) Pachytene
- b) Translocation

OR**Q.3 Describe in brief (Any two)****10**

- a) structure of polytene chromosome
- b) Heterochromatin
- c) r. RNA.

Q.4 Multiple Choice Questions.**10**

1. The term cell was given by
 - a) Robert Hooke
 - b) Tatum
 - c) Schwan
 - d) De Bazy
2. In a prokaryotic cell, DNA is
 - a) Enclosed Nuclear membrane
 - b) Lacking
 - c) Not a genetical material
 - d) Without a membrane.

3. Plasma membrane is made up of
- A protein, a lipid & cellulose layer
 - Bimolecular lipid layer surrounded by protein layer
 - A protein layer between two lipid layers
 - A lipid layer between two protein layer
4. Which organelle is called power house of cell
- Nucleus
 - Endoplasmic reticulum
 - Mitochondria
 - Golgi apparatus
5. synapsis occurs during
- Leptotene
 - Zygotene
 - Pachytene
 - Diplotene
6. Anaphase-II is characterized by
- separation of non-homologous chromosome
 - Separation & homologous chromosome
 - Separation of chromatids
 - All of them
7. DNA replication occurs
- Semi conservative
 - Conservative
 - Dispersive
 - All of above
8. sugar molecules in Nucleotides
- Pentose
 - Hexose
 - Textose
 - Trisomy
9. Wheat is example of
- Hexaploid
 - Triploid
 - Tetraploid
 - Monoploid
10. Transcription is the process of transferring genetic information from
- DNA to RNA
 - mRNA to tRNA
 - DNA to m.RNA
 - None of these.

