Sr. No. 7049

Exam. Code: 210002 Subject Code: 4825

M.Sc. Botany - 2nd Sem.

(2517)

Paper - BOTC-524: Cell Biology

Time allowed: 3 hrs.

Max. Marks: 50

Attempt all the sections.

Section-A

Q. 1. Attempt all parts. Answer to each part should not exceed four lines.

(i) How will you distinguish between colonial and multicellular forms?

(ii) Name the components of plasma membrane.

(iii) Distinguish between plastid and a chloroplast.

(iv) Define gene.

(v) Distinguish between cell cycle and cell division

(vi) What are G-proteins?

(vii) What is the nature of cell surface receptors?

(viii) What are cyclins?

8 X 1

Section-B

Attempt any seven questions. Answer to each question should not exceed two pages.

Q. 2. Write a brief note on ion pumps and ion channels.		3
Q. 3. Write a note on nuclear pore complex.	3	3
Q. 4. Discuss briefly about the components of a operon.		3
Q. 5. Describe the role of CDKs in cell cycle.		3
Q. 6. Discuss briefly G-protein coupled receptors.		3
Q. 7. Write a short note on membrane proteins.		3
Q. 8. Write a note on structure of Golgi bodies.		3
Q. 9. Write a brief note on levels of organization of tissues in plants.		3
Q. 10. Write briefly on structure and functions of gap junctions.		3
Q. 11. Write a note on thylakoid membranes.		3

Section-C

Attempt any three questions. Answer to each question should not exceed four pages.

Q. 12. Write a detailed note on eukaryotic transposons.	7
	7
Q. 13. Discuss in detail two component signal transduction pathway.	/
Q. 14. Describe the structure of cytoskeleton.	7
Q. 15. Discuss in detail how protein are sorted and transported to various destination	s within
the cell.	7
O. 16. Describe the structure of chromosome.	7

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