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Class - M.Sc.-I Sem.II (Bot) Subject - Cell Biology Paper - Bot C-524

Time Allowed: 3 Hours

Maximum Marks: 50

SECTION-A

Attempt el questions. Each question carries 1 mark.

- Write short notes on following:
 - Colonial forms
 - (b) H+ ATPase
 - (c) Refractory Period
 - (d) Signal sequence
 - (e) Calmodulin
 - (f) Euchramatin
 - (g) Pseudogenes
 - (h) Peroxisomes

SECTION-B

Attempt any 7 questions. Each question carries 3 marks.

- 2. Give the structural organization & functions of Golgi bodies.
- How proteins are targetted to nucleus?
- 4. What do you mean by Unique & repetitive DNA?
- 5. Write short note on electrical properties of membrane.
- Briefly describe the phenomenon of bacterial chemotaxis 30/2

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- Give a brief account of bacterial two component signaling system.
- 8. Write brief note on: (a) Ara operon
 - (b) Interrupted genes
- 9. Discuss in brief about active & passive mode of itemsport across membrane.
- 10. Explain briefly about mitochondria.
- 11. Discuss in brief about various unicellular, colonial & multicel'ular forms present in plant world.

SECTION-C

Attempt any 3 questions. Each question carries 7

marks.

- 12. Give a detailed account of bacterial quorum sensing in gram + ve & gram ve bacteria.
- 13. Explain in detail the role of cyclins & cyclin dependent kinases in regulation of different stages of cell cycle.
- Discuss the mechanism of intrace! Lar transport in detail.
- 15. Explain the structure & function of cytockeleton.
- Discuss the levels of organization of tissues, organs and organ system in plants.
