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Mar. 2022

M.Sc. (Life Sciences) Ist SEMESTER

Cell Biology (MLS -101)

Time : 90 Minutes]

[Max. Marks : 25

Instructions :

1. *It is compulsory to answer all the questions (1 mark each) of Part-A in short.*
2. *Answer any three questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART-A

1. Comment on the following in brief :

(a) Symports. (1)

(b) Donnan equilibrium. (1)

(c) Integrins. (1)

(d) Myosin. (1)

(e) Flagella. (1)

(f) Non-coding DNA. (1)

(g) Oncogenes. (1)

(h) Stem cells. (1)

(i) Cell surface receptors. (1)

(j) Significance of meiosis. (1)

PART-B

2. (a) Describe the molecular composition of biomembranes. (3)

(b) Describe the receptor mediated endocytosis. (2)

3. (a) Mention the functions of lysosomes. (2)

(b) Explain the mechanism of vesicular transport. (3)

4. Discuss the molecular approaches to cancer treatment. (5)

5. (a) Discuss the regulators of cell cycle progression. (3)

(b) Mention the signalling molecules and their receptors. (2)

6. (a) Explain the synthesis of cellulose fibril. (2)

(b) Describe the structure and organization of microtubules. (3)
