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AR-19

M.SC

M.Sc 1ST SEMESTER REGULAR EXAMINATIONS, NOV/DEC 2019-20

BTPC101-CELL BIOLOGY

Time: 3 Hours

Max Marks: 80

The figures in the right hand margin indicate marks.

SECTION A

Q.1 Answer any four of the following:

[4 X4 =16]

- a Write on cell cycle. 4
- b Characterize ATP synthase. 4
- c Describe gap junction. 4
- d Discuss G-protein-linked receptor. 4
- e Write notes on gene therapy. 4
- f Narrate Lysosomes. 4

OR

2. Answer all questions from the following

[2 x 8 =16]

- a What is nuclear lamina? 2
- b Give the ultra structure of F0-F1 complex. 2
- c Define endocytosis. 2
- d Give the functions of channels. 2
- e Define exocrine signaling. 2
- f What is synaptic signaling. 2
- g Write about microtubules. 2
- h Narrate Apoptosis. 2

SECTION-B

3. Answer all Questions:

[16 x4 =64]

- a Define chromatin? Discuss the detail structure and function of Euchromatin & Heterochromatin. 16

Or

- b Describe the mechanism of electron transport system in mitochondria. 16

4.

- a Discuss the different types of active transport methods with their mechanism. 16

Or

- b What do you mean by selective permeable membrane? Justify the selective permeability nature of plasma membrane. 16

5.

- a Discuss about the signaling in plant cells with examples. 16

Or

- b Define cell signalling? Discuss different types of cell signaling with figures. 16

6.

- a Write about the structure, function and mechanism of action of Oncogenes. 16

Or

- b Define gene. Discuss about the maternal gene effect with examples. 16