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V-A4-II-Ex-13-F-84

SE III BT. CBSGS 10/12/13

Cell-Biology

Con. 8946-13.

(21)

GX-12170

(3 Hours) [Total Marks : 80

N.B. : (1) Question No.1 is **compulsory**.
(2) Attempt any **three** questions out of remaining **5** questions.
(3) Draw **diagrams/figures** wherever **necessary**.

1. Write short notes on **four** of the following out of **6** questions :— **20**
   (a) Functions of Cell.
   (b) Osmosis.
   (c) Vacuoles
   (d) Necrosis.
   (e) Ig Superfamily.
   (f) Pinocytosis.

2. (a) Explain the strucutre of viruses. Enlist some important functions of viruses. **10**
   (b) Explain in detail the mechanism of active transport. Support your answer with a diagram. **10**

3. (a) What are cytoreceptors ? In detail explain the process of exocytosis and endocytosis. **10**
   (b) Describe the process of signalling through G protein coupled receptors ? **10**

4. Draw neat labelled diagram of the following :— **20**
   (a) Plant cell.
   (b) Golgi Apparatus.
   (c) Endoplasmic Reticulum.
   (d) Prophase I of meiosis.

5. (a) What is tumor ? Explain characteristics of growing tumor cells. **10**
   (b) Cell adhesion molecules play an important role in cellular communication. Justify ? **10**

6. (a) Differentiate between :— **10**
   (i) Necrotic and Pycnotic death.
   (ii) Living cell and Dead cell.
   (b) Explain calcium independent cell adhesion in detail. **10**

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