

Cell Biology  
BT / III / CBAs / CB

(21)

**Q.P. Code : 4947**

**(3 Hours)**

**[Total Marks : 80**

- NB: (1) Question No.1 is compulsory  
 (2) Attempt any 3 questions out of remaining 5 questions  
 (3) Each question is of 20 marks  
 (4) Figures to right indicates full marks

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|---|------|
| 1. (a) Write a note on pinocytosis                          | (5)  |
| (b) Describe structure of viral cell                        | (5)  |
| (c) Discuss metastasis                                      | (5)  |
| (d) Write a note on neurotransmission                       | (5)  |
| 2. (a) Explain in detail meiosis                            | (10) |
| (b) Write in brief passive transport                        | (10) |
| 3. (a) Write a note on gap junction and tight junction      | (10) |
| (b) Describe biochemical changes in tumor cells             | (10) |
| 4. (a) Explain G-protein coupled receptors                  | (10) |
| (b) Explain structure and function of endoplasmic reticulum | (10) |
| 5. (a) Describe different phases in cell cycle              | (10) |
| (b) Write a note on molecular basis of tumors               | (10) |
| 6. (a) Distinguish between living cells Vs dead cell        | (10) |
| (b) Explain structure and function of cell wall             | (10) |