Reg. No. \_\_\_\_\_\_\_\_\_\_\_\_\_

****

**End Semester Examination – Nov / Dec – 2019**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Code :** | **18BT3029** | **Duration :** | **3hrs** |
| **Sub. Name :** | **CANCER MANAGEMENT TECHNIQUES** | **Max. Marks :** | **100** |

**ANSWER ANY FIVE QUESTIONS (5 x 16 = 80 Marks)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Define tumour. Explain the different types of tumour. | CO1 | 8 |
| b. | Illustrate the tools used to diagnose the cancer. | CO1 | 5 |
| c. | List out the hallmarks of cancer. | CO1 | 3 |
|  |  |  |  |  |
| 2. | a. | Summarise cell signalling pathways in cancer. | CO2 | 10 |
| b. | What is angiogenesis? Discuss about angiogenesis promoters in cancer. | CO2 | 6 |
|  |  |  |  |  |
| 3. | a. | List out the cancer markers in a blood test. | CO3 | 8 |
| b. | Illustrate the diagnostic tests based on gene expression profile. | CO3 | 8 |
|  |  |  |  |  |
| 4. | a. | Describe the various immune detection techniques in cancer. | CO4 | 5 |
| b. | Explain any two radiological imaging techniques for cancer. | CO4 | 6 |
| c. | Write a note on mammography. Outline the adverse effects of screening mammography. | CO4 | 5 |
|  |  |  |  |  |
| 5. | a. | Illustrate endocrine therapy for cancer. | CO5 | 6 |
| b. | Outline interferon immunotherapy. | CO5 | 5 |
| c. | Describe combination cancer therapy. | CO5 | 5 |
|  |  |  |  |  |
| 6. | a. | What is Palliative care? Explain. | CO6 | 8 |
| b. | Describe the improved strategies for cancer prevention. | CO6 | 8 |
|  |  |  |  |  |
| 7. | a. | Explain the mechanism of apoptosis regulation defects in cancer. | CO2 | 5 |
| b. | Describe the various radioisotopes that are used in cancer treatment. | CO4 | 5 |
| c. | What are the types of chemotherapy? Explain the use of chemotherapy for cancer treatment. | CO5 | 6 |
|  | | | | |
| **COMPULSORY QUESTION (1 x 20 = 20 Marks)** | | | | |
| 8. | a. | What are the stages of cancer? Explain. | CO1 | 10 |
| b. | Outline the metabolic alterations in tumour micro environment-mitochondria key player. | CO3 | 10 |