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



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

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|  |  |  |  |
| **Code :** | **17NT3027** | **Duration :** | **3hrs** |
| **Sub. Name :** | **ADVANCED DRUG DELIVERY SYSTEMS** | **Max. Marks :** | **100** |

**ANSWER ALL QUESTIONS (5 × 20 = 100 Marks)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** |  | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Give a detailed account of the size, shape, and surface requirements of nanomaterials in desiging drug carriers. | CO1 | 20 |
| **(OR)** | | | | |
| 2. |  | Elaborate the methods in nanodrug delivery. | CO1 | 20 |
|  | | | | |
| 3. |  | Give a detailed account of copolymers in drug delivery. | CO2 | 20 |
| **(OR)** | | | | |
| 4. |  | Elaborate the structure of dendrimers and their applications in drug delivery. | CO3 | 20 |
|  | | | | |
| 5. |  | Explain the applications of liposomes in targeted drug delivery. | CO3 | 20 |
| **(OR)** | | | | |
| 6. |  | Explain the applications of niosomes in targeted drug delivery. | CO4 | 20 |
|  | | | | |
| 7. |  | Discuss the role of viral nanoparticles in subcellular targeting. | CO4 | 20 |
| **(OR)** | | | | |
| 8. |  | Explain the delivery of therapeutics by antibodies and antibody. | CO5 | 20 |
|  | | **Compulsory**: |  |  |
| 9. |  | Explain the following in the context of drug delivery:  i) Microneedles  ii) Micropumps  iii) Microvalves. | CO5 | 20 |