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**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

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

**End Semester Examination – Nov/Dec - 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **12BT222** | **Duration :** | **3 hrs** |
| **Sub. Name :** | **Biopharmaceutical Technology** | **Max. marks :** | **100** |

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| **Q. No** | **Questions** | **Marks** |
| **PART-A(10X1=10 MARKS)** | | |
| 1. | Define Biopharmaceutical. | (1) |
| 2. | What is pharmacokinetics? | (1) |
| 3. | What are the different types of capsules? | (1) |
| 4. | Write the name of any two quality control tests for tablets. | (1) |
| 5. | First pass mechanism – define. | (1) |
| 6. | What are the semisolid dosage forms of topical application? | (1) |
| 7. | Write the mode of action of anticeptic. | (1) |
| 8. | Define rDNA technology. | (1) |
| 9. | Name the two important regulatory activities that affect marketed drug. | (1) |
| 10. | Expand GLP & GMP. | (1) |

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| **PART B(5 X 3= 15 MARKS)** | | |
| 11. | What is drug metabolism? | (3) |
| 12. | Write short notes on wet granulation method of tablet preparation. | (3) |
| 13. | Give an account on oral liquids. | (3) |
| 14. | Laxative – explain briefly. | (3) |
| 15. | Define placebo effects. | (3) |

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| **PART C(5 X 15= 75 MARKS)** | | | |
| 16. | a. | Explain about the various steps involved in drug review process. | (7) |
| b. | Give a detailed account on two phases of drug metabolism with reactions. | (8) |
| (OR) | | | |
| 17. | a. | Write elaborately about the preclinical and list out the phases of drug review process. | (5) |
| b. | What is the role of Biotechnologist in Biopharmaceutical industry? | (4) |
| c. | Discuss about the process of drug excretion. | (6) |
| 18. | a. | What are Ointments? | (3) |
| b. | Write short notes on direct compression methods in tablet preparation. | (5) |
| c. | Briefly explain about the quality control of capsules. | (4) |
| d. | What is solid dosage forms? | (3) |
| (OR) | | | |
| 19. | a. | What is dry granulation in tablet preparation? | (5) |
| b. | Write down the process of coating on pills. | (4) |
| c. | Enumerate the quality control tests for capsules. | (6) |
| 20. | a. | Explain the preparative methods of parenteral solutions. | (9) |
| b. | Elaborate the preparation of ointment. | (6) |
| (OR) | | | |
| 21. | a. | What is injections? | (3) |
| b. | List out the quality control tests for semisolid dosage forms with examples. | (8) |
| c. | Explain briefly about the packaging of liquid dosage forms. | (4) |
| 22. | a. | Discuss – cold remedies. | (5) |
| b. | Define laxative and write short notes on it. | (7) |
| c. | What is the role of hormones in biopharmaceutical industry. | (3) |
| (OR) | | | |
| 23. | a. | What is vitamins? | (3) |
| b. | Define analgesics. | (3) |
| c. | Give an account on antibiotics. | (4) |
| d. | What are the application of rDNA technology in biopharmaceutical industry. | (5) |
| 24. | a. | Describe about double blind studies. | (5) |
| b. | Discuss in detail about FDA regulations. | (5) |
| c. | Write short notes on good manufacturing practice. | (5) |
| (OR) | | | |
| 25. | a. | Explain in detail about clinical trials and regulations. | (8) |
| b. | Explain the major regulations of FDA and Indian drug regulations. | (7) |

ALL THE BEST