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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 :** | **12CH211** | **Duration :** | **3 hrs** |
| **Sub. Name :** | **Medicinal Chemistry** | **Max. marks :** | **100** |

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| **Q. No.** | **Questions** | **Marks** |
| **PART-A(10X1=10 MARKS)** | | |
| 1. | What is intercalation? | (1) |
| 2. | Expand GABA. | (1) |
| 3. | Define a Lead Compound. | (1) |
| 4. | Define pH. | (1) |
| 5. | What is Pinocytosis? | (1) |
| 6. | Define Palcebo. | (1) |
| 7. | What is Bioavailability? | (1) |
| 8. | Give an example for the isolation of bioactive compound from natural sources. | (1) |
| 9. | What is random screening? | (1) |
| 10. | What do you mean by drug design? | (1) |

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| **PART B(5 X 3= 15 MARKS)** | | |
| 11 | Write short notes on multiple prodrug formation. | (3) |
| 12 | Discuss the Paton’s rate theory. | (3) |
| 13 | Write notes on Hydrolysis. | (3) |
| 14 | Explain Convergent Synthesis with an example. | (3) |
| 15 | Write notes on accidental Discovery. | (3) |

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| **PART C(5 X 15= 75 MARKS)** | | | |
| 16. | a. | Give an account on the chemical revolution of drug design. | (5) |
| b. | What are the differences between a Prodrug and Softdrug? | (10) |
| (OR) | | | |
| 17. |  | Discuss the classification of Drugs with examples. | (15) |
| 18. |  | Illustrate the Clark’s theory. | (15) |
| (OR) | | | |
| 19. |  | Discuss in detail about the Enzyme inhibitors with examples. | (15) |
| 20. |  | Explain Absorption, Distribution, Metabolism and Excretion in detail. | (15) |
| (OR) | | | |
| 21. |  | Discuss the natural resources of lead compounds. | (15) |
| 22. |  | What are the various phases in preclinical testing and clinical trials? | (15) |
| (OR) | | | |
| 23. |  | Write notes on complexes and chelating agents. | (15) |
| 24. |  | Explain the factors affecting drug development. | (15) |
| (OR) | | | |
| 25. |  | What are the procedures involved in drug design? | (15) |

ALL THE BEST