M.Sc.- II (Chemistry) (CBCS Pattern) Sem-III **PSCHT12.5 - Elective Paper : Medicinal Chemistry Paper-XII**

| | ages : le : Th | 2 ree Hours $* 2 0 6 3 *$ | GUG/W/22/11346 Max. Marks : 80 | |
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| | Note | es : 1. All questions are compulsory and carry equal marks. | | |
| 1. | a) | Explain the significance of drug metabolism in medicinal chemistry. Give on computer aided drugs. | a detail account 8 | |
| | b) | What are cardiovascular drugs? Write down the synthesis of amyl nitrate a | nd verapamil. 8 | |
| | | OR | | |
| | c) | Write a short note on molecular modelling. | 4 | |
| | d) | How methyl dopa is synthesized? Give its adverse effects. | 4 | |
| | e) | Discuss the term "Biological response to drug" | 4 | |
| | f) | Write a note on Medical Formulations. | 4 | |
| 2. | a) | What is cancer? Classify cancer and explain cancer chemotherapy along causing cancer. | with chemicals 8 | |
| | b) | What are type I and II diabetics? Comment on the role of insulin in human be cannot be given orally? | body why insulin 8 | |
| | | OR | | |
| | c) | How is pioglitazone synthesized? | 4 | |
| | d) | Give the synthesis and uses of Lomustine. | 4 | |
| | e) | Write a short note on Thiazolidinediones as antidiabetic agents. | 4 | |
| | f) | Explain the role of alkylating agents in the treatment of cancer. | 4 | |
| 3. | a) | Write the synthesis, uses, side effects and mode of action of ciprofloxacin | drug. 8 | |
| | b) | What are analgesics and antipyretics? Write the synthesis and uses of Anal phenylbutazone. | lgin and 8 | |
| | | OR | | |
| | c) | Write a short note on mode of action of diuretics. | 4 | |

d) Give the synthesis and uses of Aminosalicylic acid.

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