M.Sc.- II (Chemistry) (CBCS Pattern) Sem-IV **PSCHT16.5 - Elective: Medicinal Chemistry Paper-XVI**

P. Pages: 2 GUG/W/22/11464 Time: Three Hours Max. Marks: 80 All questions are compulsory and carry equal marks. Note: 1. Write a note on Indian and International framework for patent protection. 8 a) What are the types of paper chromatography? Discuss the techniques used in paper 8 b) chromatography. OR c) Discuss Drug rules. Write a note on intellectual property rights. d) Explain the techniques used in TLC. e) Write a note on Radio pharmaceuticals. f) 2. Write a note on :-8 a) Viral diseases ii) Viral replication Give the synthesis of:b) 8 Chloroquin ii) Primaquin Write a note on F-Test. c) 4 d) Give the synthesis of acyclovir. Write a note on life cycle of malarial parasite. e) Explain investigational drugs. f) **3.** a) Give the synthesis of 8 Ampicillin ii) Methacycline What are Histamines? Write a note on H1 receptor antagonists. 8 b) OR c) What are antibiotics? Discuss on β -lactam antibiotics. 4 d) Give the synthesis of cephradine. Discuss on antithistamic agent. e) Give the synthesis of phenothiazines. f)

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| 4. | a) | Write a note on :- i) Drugs used in trematode infection ii) Drugs used in nematode infection | 8 |
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| | b) | Give the synthesis of :- i) Phenyl butazone ii) Pyrazolone derivative | 8 |
| | | OR | |
| | c) | Explain antiamoebic drugs. | 4 |
| | d) | Give the synthesis of Dichlorophen. | 4 |
| | e) | Write a note on etiology of inflammatory diseases. | 4 |
| | f) | Write a short note on biochemical response of anti-inflammatory drugs. | 4 |
| 5. | a) | Write a note on CT | 2 |
| | b) | Discuss drug acts | 2 |
| | c) | Write the structure of Cytarabin. | 2 |
| | d) | Give the synthesis of Quinacrine | 2 |
| | e) | Write the structure of penicillin. | 2 |
| | f) | Give the classification of Antibiotics. | 2 |
| | g) | Write a short note on helminthiasis. | 2 |
| | h) | Write a short note on anti-inflammatory drugs. | 2 |
