

Subject code: BP601TP

DATE:01/04/2021

Sub: Medicinal Chemistry III

Total Marks: 100

Time: 10:30 AM to 01:30 PM

Enroll. No:

ATTEMPT ANY TEN

- Q.1 a.)** Write mechanism of action, uses and adverse effects of penicillin **(5+5)**
b.) Write detail SAR of Cephalosporin.
- Q.2 a.)** Write short notes on Aminoglycosides antibiotics. **(5+5)**
b.) Write detail SAR of Penicillin.
- Q.3 a.)** Discuss degradation of Penicillin and write short note on Penicillinase-resistant Penicillins. **(5+5)**
b.) Write down SAR of tetracyclines. Discuss epimerization in this class of antibiotics. **(5+5)**
- Q.4 a.)** Discuss the following terms: Fanconi's Syndrome, Gray Baby Syndrome. **(5+5)**
b.) Explain life cycle of Malaria parasite and drug acting on each stage of life cycle.
- Q.5 a.)** Briefly explain Antiviral agents. **(5+5)**
b.) Write synthesis of Primaquin and chloroquine.
- Q.6 a.)** Give the scheme of synthesis of Chloramphenicol and discuss its SAR. **(5+5)**
b.) Write mechanism of action, chemistry and uses of Macrolide antibiotic.
- Q.7 a.)** Briefly explain SAR of Fluroquinolones. **(5+5)**
b.) What are antitubercular agents? Briefly explain first line antitubercular agents.
- Q.8 a.)** Write about the drug agents working against HIV. **(5+5)**
b.) Write mechanism of action, uses and side effect of sulfonamide in detail.
- Q.9 a.)** Write a SAR of Sulphonamide. Give Synthesis of Dapsone. **(5+5)**

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- b.) What is amoebiasis? How antiamoebics act? Give synthesis of Metronidazole.
- Q.10 a.)** Give the degradation and Stereochemistry pathway of Penicillin. **(5+5)**
- b.) Give the synthesis of Para-amino salicylic acid and Acyclovir.
- Q.11 a.)** Give Synthesis of Mebendazole and Sulfacetamide. **(5+5)**
- b.) Give Synthesis of Miconazole and Diethyl carbamazine citrate.