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PPB-014-003705 Seat No. _____

M. P. M. (Sem. VII) (CBCS) Examination

November / December - 2018

Pharmaceutical Chemistry - IX

(Medicinal Chemistry - III)

Faculty Code : 014

Subject Code : 003705

Time : **3** Hours] [Total Marks : **80**

Instructions : (1) Attempt three questions from each section.
(2) Question 1 and 5 are compulsory.
(3) Figures to the right indicate full marks for the respective question.

SECTION – I

1 Answer the following questions. (any **seven**) **14**

(1) Justify: Supplement of Vit. B6 should be given with INH in T.B.

(2) Give stereochemistry of penicillin.

(3) Give structure and mechanism of action of antibiotic whose side effect is gray baby syndrome.

(4) Explain life cycle of malarial parasite.

(5) Match 'A' with 'B'.

A	B
Streptomycin	*Cephalosporium acremonium*
Neomycin	*Streptomyces griseus*
Chloramphenicol	*Streptomyces fradiae*
Cephalosporin	*Streptomyces aureofaciens*

(6) Explain SAR of antibiotic which contain aminosugars which are linked to aminocyclitol ring.

(7) Give causative agent for Malaria. Which species is most dangerous? Why?

(8) Give examples of DNA and RNA Viruses. Name the virus for chicken pox, conjunctivitis and rabies.

(9) Justify: Slow acetylators are more prone to INH toxicity than rapid acetylators.

(10) Explain the term CADD.

2 (1) Write the mechanism of action of β-lactam antibiotic. Explain SAR of Penicillin. **7**

(2) What is "Free Wilson Mathematical model of QSAR" ? Give application of QSAR in drug design. **6**

3 (1) Explain SAR of antibiotic which is not taken with milk. **7**

(2) Explain in detail SAR of cephalosporin and sulphonamides. **6**

4 (1) Give method of synthesis and uses of Ketoconazole and chlorambucil. **7**

(2) Classify sulphonamides with suitable examples and explain its mechanism of action. **6**

SECTION – II

5 Answer the following questions : (any **two**) **14**

(1) Explain the term β-lactam antibiotics. Classify cephalosporin antibiotic with suitable examples.

(2) What are anti-viral agents? Classify with suitable examples.

(3) Explain SAR of fluoroquinolones and give synthesis of sulphacetamide.

6 (1) Write an informative note on agents used to treat mycosis. **7**

(2) Write a note on anthelmintic agents and give synthesis of albendazole. **6**

7 (1) Classify anti -mycobacterial agents. Write a note on anti-TB. **7**

(2) Classify anti-cancer agents. **6**

8 Answer the following :

(1) What is QSAR ? Write a note on combinatorial chemistry and parallel synthesis. **7**

(2) Give SAR of Quinolines. **6**