Rajiv Gandhi University of Health Sciences

Fourth Year B.Pharma Degree Examination - Sep 2012

Time: 3 Hours   [Max. Marks: 80]

Medicinal Chemistry - II (RS2)

QP Code : 1969

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY (Answer any two)   **2 X 10 = 20 Marks**

1. Classify antibiotics with example. Give the mechanism of action of beta lactam antibiotics. Write a note on chemical degradation of penicillin.

2. Write the structure elucidation of uric acid.

3. Write the mechanism of action of methotrexate and busalfan. Write the synthesis of chloramphenicol and penicillin G.

SHORT ESSAY (Answer any eight)   **8X 5 = 40 Marks**

4. Classify anti fungal agents with examples. Write the synthesis of clotriamazole.

5. Write a note on CADD

6. Write the SAR of tetracyclines

7. Classify antimalarials. Write the synthesis of chloroguanide and chloroquine.

8. Write the synthesis of dimercaprol and metronidazole

9. Write a note on SAR of thiazide and thiazide like diuretics.

10. Classify antihypertensive agents and explain ACE inhibitors.

11. Write the structure and chemical name of (i) propyl paraben (ii) ketoconazole

12. Classify cephalosporins with examples. Write the synthesis and medicinal uses of dapsone.

13. Write the synthesis of ethambutol and nalidixic acid.

SHORT ANSWERS   **10 X 2 = 20 Marks**

14. Write the synthesis and medicinal uses of methyl paraben.

15. Write the synthesis and medicinal uses of sulamethoxazole.

16. Write the structure and medicinal uses of tolbutamide and warfarin.

17. Write the synthesis and medicinal uses of clofibrate.

18. Write the structure and medicinal uses of tocainide and diltiazem.

19. Write the synthesis and medicinal uses of penicillin V.

20. Write the structure and medicinal uses of acyclovir and isosorbide dinitrate.

21. Write the structure and medicinal uses of diloxanide furoate and idoxuridine.

22. Write the structure and medicinal uses of theophylline and mannitol.

23. Write the structure and medicinal uses of hexyl resorcinol and phenyl mercuric nitrate.

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