

Rajiv Gandhi University of Health Sciences

IV Year B.Pharm Degree Examination - JAN-2019

Time: 3 Hours

[Max. marks : 70]

Medicinal Chemistry II (Revised Scheme – 3) QP Code: 2619

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 sulphonamides. Give the SAR and chemistry of sulphonamides. Write the synthesis of sulphamethoxazole
2. Classify anti-hypertensive agents with examples and give their mechanism of action. Outline the synthesis of Nitrofurantoin.
3. What are anti-malarial agents classify them with examples. Give their mechanism of action and outline the synthesis of pamaquine

SHORT ESSAY (Answer any six)

6 X 5 = 30 Marks

4. Write the synthesis, medicinal uses and mode of action of thiabendazole
5. What are anti neo-plastic agents? Discuss hormones as anti-neoplastic agents
6. Write a short note on computer aided drug design and combitorial chemistry
7. Discuss the chemistry of macrolide antibiotics giving their uses and side effects
8. What are calcium channel blockers? Describe their effects on cardiovascular system
9. Write a note on carbonic acid anhydrase inhibitors. Give their structure and uses.
10. Explain the SAR of tetracyclines.
11. Write the structure and medicinal uses of any four antiprotozoal drugs.

SHORT ANSWERS

10 X 2 = 20 Marks

12. Give the synthesis and medicinal uses of ciprofloxacin
13. Give the structure and mechanism of action of lomustine
14. Write the structure and uses of any two anti-thyroid drugs.
15. What are potassium sparing diuretics? Give the structure of triamptere.
16. What are monolactam antibiotics? Give the structure and medicinal uses of aztreonam.
17. Give examples of cationic surfactants with their specific uses.
18. What is lead molecule? Give examples.
19. Give the synthesis of Furazolidone
20. Outline the synthesis of warfarin
21. Preservatives used in ocular products

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