

# Rajiv Gandhi University of Health Sciences, Karnataka

Time: Three Hours

III Year Pharm-D Degree Examination - JAN-2019

Max. Marks: 70 Marks

## MEDICINAL CHEMISTRY (RS & RS2)

Q.P. CODE: 2865

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

### LONG ESSAYS (answer any two)

2 x 10 = 20 Marks

1. What are antibiotics? Discuss the SAR & MOA of tetracyclines
2. Classify antihypertensive agents? Discuss the MOA of calcium channels blockers & beta blockers with examples. Write the synthesis of Propranolol
3. a) Give the MOA of Sulphonamides. Write the structure and uses of Phthalyl sulfathiazole and sulphadiazine.  
b) Write a note on plant products and hormones as anticancer agents.

### SHORT ESSAYS (answer any six)

6 x 5 = 30 Marks

4. What are anthelmintics? Write the synthesis of Thiabendazole and Albendazole
5. What are antifungal antibiotics? Explain their mechanism of action
6. Comment on combination therapy of Trimethoprim and Sulphamethoxazole
7. Classify antimalarial agents with suitable examples. Outline the synthesis of Chloroquine
8. Classify Alkylating agents with examples. Outline the synthesis of Chlorambucil
9. Discuss briefly about antianginal agents
10. Write a note on urinary tract anti-infectives. Outline the synthesis of Ciprofloxacin.
11. Write the structure and uses of p-Aminosalicylic acid, Isoniazid, Ethambutol and Pyrazinamide.

### SHORT ANSWERS

10 x 2 = 20 Marks

12. Enumerate the applications of QSAR
13. Write the structure of one prodrug and its active metabolites
14. What are ACE inhibitors? Give two examples
15. Write the structure and uses of Rosiglitazone
16. Define diabetes. Name any two drugs used in the treatment of diabetes
17. Define hormones. Why they are transported through blood in combination with certain fractions of protein
18. What are carbonic anhydrase inhibitors? Give examples
19. Structure and uses of ethacrynic acid
20. Name any two drugs used for examination of Gastric function
21. What are adrenocorticoids? Give examples

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