

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Pharm Degree Examination – NOVEMBER 2015

Time: Three Hours

Max. Marks: 70 Marks

PHARMACEUTICAL ORGANIC CHEMISTRY - II
(Revised Scheme 3)

Q.P. CODE: 2610

Your answers should be specific to the questions asked

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Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. What is racemic modification? Discuss in detail the different techniques employed for resolution of racemic mixture.
2. a) What are heterocyclic compounds? Classify with examples.
b) Write the structure & uses of any four drugs containing five membered heterocyclic compounds.
3. What are oils & fats? Give the classification of oils with examples. Enlist the analytical constants of fats and oils with their significance.

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SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Why conformational enantiomerism is possible in suitable substituted biphenyls?
5. Write a note on plane of symmetry.
6. Write the Erlenmeyer's and azolactone synthesis of aminoacids.
7. Write the resonance hybrid structure of pyrrole.
8. Write the structure and medicinal uses for the followings:
i) Isoniazid ii) Histamine iii) Sulphadiazine.
9. What are Carbohydrates? Discuss the determination of ring size in Glucose.
10. Give the synthesis & chemical reactions of Imidazole.

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11. Write note on Derivatives of Cellulose.

SHORT ANSWERS

10 x 2 = 20 Marks

12. What are Diastereomers? Give example.
13. What is Chirality?
14. Draw the configuration for S-2 butanol.
15. What are non-reducing sugars? Give structural examples.
16. Give one example for each: i) chichibabin reaction ii) knorr synthesis

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17. Write the structure and give the numbering of i) Purine ii) Acridine.
18. What are derived proteins? Give example.
19. What is rancidity? Give classification.
20. What are conformers?
21. Write the structure & medicinal uses of Tolnafate.

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