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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Pharm Degree Examination – Mar 2013

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
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Discuss the mechanism and stereochemistry of E_1 and E_2 reactions
2. Explain the cyclic structure of glucose and give the methods of determination of ring size
3. Describe the general methods for the synthesis and reactions of pyridine and thiophene. Mention few pharmaceutically important compounds of pyridine and thiophene

SHORT ESSAYS (Answer any Six) **6 x 5 = 30 Marks**

4. What are peptides and proteins? How are they important in biological processes?
5. Give the methods of synthesis and reactions of pyrrole
6. Explain the Fischer-Killiani's reaction of converting aldopentose to aldohexose
7. Discuss the stereochemistry of oximes
8. What are conjugated proteins and how are they classified?
9. What is saponification value? How is it determined?
10. Write the synthesis of phenylalanine by Erlenmeyer's azalactone procedure
11. Explain the analytical constants of oils and fats

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

12. Define the term Rancidity
13. Define diastereoisomerism
14. Explain the term drying and non drying oils
15. Write the structure and use of sulphadiazine
16. Give Haworth synthesis of Naphthalene
17. Give the structure and use of Tolnaftate
18. Define the term isoelectric point
19. Define the term iodine value and give its significance
20. Give the conversion of Furan to furoic acid
21. Define optical isomer and give an example

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