Rajiv Gandhi University of Health Sciences

Second Semester M. Pharm Degree Examination - MAY-2018

[Time: 3 Hours] [Max. Marks: 75]

Advanced Organic Chemistry-II

Q.P. CODE: 5158

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

LONG ESSAY (Answer any Three) **3 X 10 = 30 Marks**

1. What is green chemistry? Discuss the principle and applications of green chemistry.
2. Explain strategies for solution phase peptide synthesis.
3. With help of correlation diagram, show that cyclisation of hexatriene to cyclohexadiene on heating proceeds by disrotatory mode.
4. Write about Chan, Ingold and Prelog (CIP) sequence rule.

SHORT ESSAY (Answer any Nine) **9 X 5 = 45 Marks**

5. Write the principle and advantages of continuous flow reactors.
6. Write a note on liquid-solid reaction and synthetic application.
7. Write note on solid phase peptide synthesis.
8. Explain in details about various solid supports and linkers.
9. Explain FMO method for analyzing an electrocyclic reaction by taking one example.
10. Advantages and disadvantages of catalysis
11. Write a note on regeneration of heterogenous catalysts.
12. Use of enzymes in organic synthesis
13. Explain about the chiral pool and the asymmetric drug synthesis techniques.
14. Discuss any three methods for resolution of racemic compounds.

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