M. Sc. Pharma Organic Chemistry
(Sem. II) (CBCS) Examination
May / June – 2015
POC - 204 : Selected Topics in Pharmaceutical Chemistry

Faculty Code : 003
Subject Code : 036204

Time : $2\frac{1}{2}$ Hours]   [Total Marks : 70

Instructions: 1. All questions are compulsory & carry equal marks.
2. Draw Diagrams &/or scheme wherever necessary.

Q.1 Answer any SEVEN of the following ten questions.   **[14]**

1. Explain laws of photochemistry.

2. Which type of inventions are non-patentable in India?

3. What is oxidation pond?

4. Explain the term Service Mark with example.

5. Give the full form & importance of CPCSEA.

6. What is geographical indication in IPR? Give few examples.

7. Define: (a) Error (b) Precision

8. Give the Structure, Properties and Applications of CMC.

9. Each of the following sets of data appears to be an outlaying result. Apply the Q test to determine whether this valve should be rejected or retained. (Qtab = 0.76)

    75.96   76.35   76.12   76.03

10. Draw the schematic diagram of Wet Scrubber.

Q.2 Answer any TWO of the following three questions.   **[14]**

1. Write a note on i) electrostatic precipitator ii) cyclone Separator

2. Give an overview of GMP.

3. What is SOP and discuss SOP of SOP.

Q.3 Answer the following questions. [14]

1. Explain Principles of Green Chemistry.

2. What is atom economy? Explain with example.

OR

Q.3 Answer the following questions. [14]

1. Write a note on Electrostatic Precipitator with schematic diagram.

2. Give an account of Norrish type – II process for Ketones.

Q.4 Answer any TWO of the following three questions. [14]

1. Explain classification of Polymers in detail.

2. Give an account of GLP for pharma industries.

3. Construct SOP for Calibration of (a) pH meter, (b) Thermometer

Q.5 Answer any TWO of the following four questions. [14]

1. Briefly explain following ERRORS with example.

   (a) Personal (b) Reagent (c) Instrumental

2. Define the term patent, explain provisional and final patent.

3. Find out mean, standard deviation and variance for following data.

   4.00   4.50   4.79   5.00   4.90

4. Write a note on Photochemical Smog.