

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 4616

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Unique Paper Code : 2176000003

Name of the Paper : SEC : Lab Testing and Quality Assurance

Name of the Course : **All courses**

Semester : II/IV/VI

Duration : 1 Hour

Maximum Marks : 30

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **two** questions in all.

1.
 - a) What is the role of government regulatory authorities on manufacturing in Life Sciences industry in India.
 - b) Name any five National and International regulatory agencies which works in the field of Life Sciences sector.
 - c) Explain the Good laboratory Practices and their importance. 5,5,5
2.
 - a) Define the following :-
 - i) Chromatography
 - ii) Mobile Phase
 - iii) Stationary Phase
 - iv) Distribution Constant
 - v) Retention Factor
 - b) How electroanalytical methods of chemical analysis work as important tool in quality control of a sample.
 - c) Explain, why Beer-Lambert law fails at high concentration. 5,5,5
3.
 - a) Why is sample preparation necessary in analytical chemistry.
 - b) How do you prevent analyte degradation during storage?
 - c) How will you differentiate between volumetric and gravimetric method of analysis. 5,5,5,

P.T.O.

4. a) What are the SOPs for food supplements manufacturing according to government regulations.
- b) How will you prepare TLC plate in laboratory. Discuss its advantages and disadvantages.
- c) What do you understand with advanced quality control approaches and its implications? 5,5,5