

Day : Monday  
Date : 25/06/2018

Time : 10.00 AM TO 01.00 PM  
Max. Marks: 100.

S-2018-4747

**N.B.:**

- 1) Attempt any **FIVE** questions from Section-I and any **FIVE** questions from Section-II.
- 2) Both the sections should be written in **SEPARATE** answer books.
- 3) Draw neat labeled diagrams **WHEREVER** necessary.

**SECTION-I**

- Q.1** Define research. Give different types of research and explain clinical research. (10)
- Q.2** Write an exhaustive note on literature survey. Highlight various sources of literature survey along with their advantages and disadvantages. (10)
- Q.3** Elaborate various components of thesis writing. (10)
- Q.4** Define and differences between qualitative and quantitative research. (10)
- Q.5** Define a research problem. Elaborate your answer giving suitable examples. (10)
- Q.6** Write short notes on any **TWO** of the following. (10)
- a) Types of errors
  - b) Quality by design
  - c) Plagiarism

**SECTION-II**

- Q.7** Write a detailed note on bioscreening of analgesics. (10)
- Q.8** What are biological wastes? Explain various methods to handle biological wastes. (10)
- Q.9** Give the salient features of CPCSEA. (10)
- Q.10** Define hypothesis. What characteristics it must possess in order to be a good research hypothesis. (10)
- Q.11** Genetic theory states that children having one parent of blood type A and the other of blood type B will always be one of three types A, AB, B and that the proportion of three types will on an average be as 1:2:1. A report states that out of 300 children having one A parent & other B parent, 30% were found to be types A, 45% type AB and remaining of type B. test the hypothesis by Chi-Square test. (10)
- Q.12** Write short notes on any **TWO** of the following: (10)
- a) OECD guidelines
  - b) LD<sub>50</sub>
  - c) Handling of radioactive wastes