

**M. PHARM. SEM-I (CHOICE BASED CREDIT &
GRADE SYSTEM) : WINTER - 2017**
SUBJECT : RESEARCH METHODOLOGY & BIOSCREENING

Day : **Friday**
Date : **05/01/2018**

W-2017-3856

Time : **10.00 AM to 01.00 PM**
Max. Marks : 60

N.B.:

- 1) Attempt **ANY THREE** questions from each section.
- 2) Figures to the right indicate **FULL** marks.
- 3) Use of non-programmable **CALCULATOR** is allowed.
- 4) Statistical tables will be provided.
- 5) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION – I

- Q.1** Define research and explain various components of research proposal. **[10]**
- Q.2** Explain the importance of literature survey. Highlight various sources of literature survey along with their advantages and disadvantages. **[10]**
- Q.3** Discuss various components of a scientific research paper. **[10]**
- Q.4** Write elaborate notes on **ANY TWO** of the following: **[10]**
- a) Qualitative research
 - b) Plagiarism
 - c) Secondary data collection

SECTION – II

- Q.5** What are radioactive wastes? Explain various methods to handle radioactive wastes. **[10]**
- Q.6** Explain analgesics and elaborate any model to evaluate analgesic activity. **[10]**
- Q.7** An experiment was conducted to test the efficacy of chloromycetin in checking typhoid. In certain hospital chloromycetin was given to 285 out of 392 patients suffering from typhoid. The number of typhoid cases were as follows:

	Typhoid	No typhoid	Total
Chloromycetin	35	250	285
No chloromycetin	50	57	107
Total	85	307	392

Use Chi-Square test to test the effectiveness of chloromycetin in checking typhoid at 5% level of significance.

- Q.8** Write short notes on **ANY TWO** of the following: **[10]**
- a) Non parametric tests
 - b) Biological wastes
 - c) Linear regression and correlation

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