

**M. PHARM. SEM-I (CHOICE BASED CREDIT & GRADE  
SYSTEM) : WINTER - 2018**

**SUBJECT : RESEARCH METHODOLOGY & BIOSCREENING**

Day : Friday  
Date : 04/01/2019

**W-2018-4153**

Time : 10.00 A.M. TO 01.00 P.M.  
Max. Marks : 60

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**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.
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**SECTION – I**

- Q.1** Define research and explain in detail the research process. [10]
- Q.2** Elaborate various components of thesis writing. [10]
- Q.3** Write an exhaustive note on literature survey. Highlight various sources of literature survey along with their advantages and disadvantages. [10]
- Q.4** Write elaborate notes on **ANY TWO** of the following: [10]
- a) Quantitative research
  - b) Quality by Design
  - c) Plagiarism

**SECTION – II**

- Q.5** Describe the hazards of radiation. Highlight on the handling and disposal of radioactive materials. [10]
- Q.6** Write a detailed note on bioscreening of antipsychotics. [10]
- Q.7** 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 be on an average by as 3:5:2. A report states that out of 500 children having one 'A' parent and other 'B' parent, 35% were found to be types 'A', 50% type 'AB' and remaining of type 'B'. Test the hypothesis by using Chi-Square test. Use 10% level of significance.
- Q.8** Write short notes on **ANY TWO** of the following: [10]
- a) Screening of anticonvulsants
  - b) CPCSEA guidelines
  - c) Screening of Anti-inflammatory activity

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