

**Pre. Ph.D. Course Work (2017 Course ) : SUMMER - 2018  
(Common For Medical Pharmacology / Medical Biochemistry)**

**SUBJECT : Paper – I Research Methodology & ICT for Research  
(Medical Pharmacology)/(Medical Biochemistry)**

Day : **Monday**  
Date : **25/06/2018**

**S-2018-4740**

Time : **10.00 AM TO 01.00 PM**  
max. Marks : 100

**N.B.**

- 1) Attempt **ANY FIVE** questions from **Section – I** and **ANY FIVE** questions from **Section – II**.
- 2) Both sections should be written in **SEPARATE** answer books.
- 3) Figures to right indicate **FULL** marks.

**SECTION - I**

- Q.1** Describe in brief the idea of research question and its importance. (10)
- Q.2** What is hypothesis? Classify with example and give the importance of it. (10)
- Q.3** Describe various research methods used to plan estimation of incidence and prevalence in population. (10)
- Q.4** Describe advantages and disadvantages of cohort studies. (10)
- Q.5** What is blinding? Explain its role in drug trials. (10)
- Q.6** Name basic principles of ICH-GCP guidelines and explain any one of them. (10)

**SECTION - II**

- Q.7** Classify types of data and methods used for their analysis. (10)
- Q.8** Describe measures of central tendency and its use in epidemiology. (10)
- Q.9** What is a sample? Classify sampling techniques. (10)
- Q.10** Describe students 't' test giving its importance. (10)
- Q.11** Mention various softwares used for analysis of data. Add a note on role of MS excel in it. (10)
- Q.12** Draw example of  $2 \times 2$  contingency table. Mention test using such technique with its importance. (10)

\* \* \* \* \*