

**Pre. Ph.D. Course Work (2017 Course ) SUPPLEMENTARY :  
(Common For Medical Microbiology /Community Medicine/  
Audiology/ Medical Biochemistry) : JUNE- 2019**

**SUBJECT:-PAPER-I RESEARCH METHODOLOGY/MEDICAL MICROBIOLOGY/  
COMMUNITY MEDICINE/AUDIOLOGY/MEDICAL BIOCHEMISTRY**

Day: Wednesday

Date: 26/06/2019

**S-2019-5396**

Time: 10.00 AM TO 1.00 PM

Max. Marks: 100

**N.B.**

- 1) Attempt **ANY FIVE** questions from section – I and **ANY FIVE** questions from section – II
- 2) Figures to the right indicate **FULL** marks.

**SECTION-I**

- Q.1** What is the significance of research methodology in decision making? Compare and contrast between Fundamental and Applied Research? **(10)**
- Q.2** What are the important characteristics of good research problem? How hypothesis endorses the research work? Give Comment. **(10)**
- Q.3** What alternate research designs are most relevant in medical science justify your answer with suitable example **(10)**
- Q.4** What are the various data collection methods used in medical science research? Critically evaluate the various data collection methods from the point of its practical application in different situations. **(10)**
- Q.5** What alternate statistical tools are used for data analysis and hypothesis testing? Why selection of appropriate statistical tool is important in data analysis and interpretation **(10)**
- Q.6** Attempt **ANY TWO** short notes:
- a) Sampling Methods **(05)**
  - b) Measurements of scale **(05)**
  - c) Testing Tools **(05)**

**SECTION-II**

- Q.7** How literature survey and review axe has as a starting point of any research work? How review of literature sourced, organized and presented? **(10)**
- Q.8** How the research proposal and structure is different than structure of the thesis? Comment on its similarities and differences with logical reasoning. **(10)**
- Q.9** What are the characteristics of good journal? What role indexing and citations plays for improving credential of journal and published article? **(10)**
- Q.10** What are the software packages commonly used in data analysis? Comment. **(10)**
- Q.11** What are the ethical principles in medical research? **(10)**
- Q.12** Attempt **ANY TWO** short notes:
- a) Publication Ethics **(05)**
  - b) Guide lines for research in Medicine **(05)**
  - c) Structure of Abstract **(05)**

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