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**B.PHARM.****THEORY EXAMINATION (SEM–VIII) 2016-17****RESEARCH METHODOLOGY****Time : 3 Hours****Max. Marks : 100****Note : Be precise in your answer. In case of numerical problem assume data wherever not provided.****SECTION – A****1. Explain the following:****10 x 2 = 20**

- (a) hypothesis
- (b) Abstract
- (c) E journals
- (d) impact factor
- (e) key words
- (f) primary data
- (g) CPCSEA
- (h) Patent
- (i) Citation of journal
- (j) plagiarism

**SECTION – B****2. Attempt any five parts of the following question:****5 x 10 = 50**

- (a) Give the content and explain each part of research project
- (b) Discuss the steps of literature survey.
- (c) Describe documentation technique and explain use of computer programs.
- (d) Enlist the list of software/ programs in data analysis and explain their importance
- (e) Discuss about various types of research reports.
- (f) Describe CPCSEA Guidelines for animal experimentation.
- (g) Discuss steps for commercialization of research.
- (h) Give the methods for data collection.

**SECTION – C****Attempt any two parts of the following:****2 x 15 = 30**

3. Describe the steps for online submission articles in science direct journals.
4. Discuss the sampling procedure, data processing and analysis.
5. Write note on research ethics.