

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT  
TEST -3 EXAMINATIONS, December-2017  
BTDD VII<sup>th</sup> Semester (BT)

COURSE CODE: 13M11BT115  
COURSE NAME: Research Methodology  
COURSE CREDITS: 03

MAX. MARKS: 35  
MAX. TIME: 2 HR

Note: All questions are compulsory; Carrying of mobile phone during examination will be treated as case of unfair means.

Q1. Answer/Explain the following questions.

[2x7=14]

- What are Null and alternative hypothesis?
- Significance of research design.
- What are the points to keep in mind during literature review for a research project?
- What is the objective of writing systematic review?
- Type I and type II errors.
- Citation, H index and journal impact factor?
- Discovery, Invention and Innovation

Q2. Discuss 5Rs of ethics related to experimentation in animals. What role CPCSEA has in implementation of these ethics? [3]

Q3. What are the various methods of data collection? Discuss in detail along with their advantages and disadvantages? [3]

Q4. What is sampling? Explain its merits and demerits. [3]

Q5. Explain various steps of writing research report in details. What guideline should be followed in an oral presentation? [5]

Q6. What is research misconduct? Why does research misconduct happen? How research misconduct identified? What are consequences of research misconduct if substantiated? Who investigates and who is held accountable for research misconduct? [7]