

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT  
Test -2 EXAMINATIONS, OCTOBER 2017  
Integrated M. Tech (BT)

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

MAX.MARKS: 25  
MAX.TIME: 1.5 Hrs

**Note: Carrying of mobile phones during examinations will be treated as a case of unfair means.**

Q1. Answer/explain briefly the following questions. (Any six) [1.5x6=9]

- What is an acceptable amount of fabrication in science?
- What type of conflict of interest might arise when someone is asked to review or grant application?
- What factors one should weigh up when making final decision about joining graduate programme?
- What is ghost writing? Is it ethically acceptable to publish ghost written scientific paper?
- Is it ever appropriate for a peer reviewer to give a paper to a graduate student for review? If so, how should the reviewer do so?
- What are the main differences between an agreement for licence and assignment?
- Would you be tempted to overly manipulate an image to make it prettier or to avoid repeating an experiment? Explain your views.

Q2. a) What points will you keep in mind while preparing a power point presentation of your research work? [1.5]

b) What are different forms in which a research work may be reported/ communicated? [1.5]

Q3. Write notes on followings. (Any Three) [2x4=8]

- Mentor and trainee responsibilities
- Patent co-operation treaty (PCT)
- Patentability criterion
- Strategies to do efficient literature search.

Q4. Explain various types sampling methods. When stratified random sampling design is considered appropriate. How would you select such sample? Explain by taking an example. [5]