JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -1 EXAMINATION - 2024

PhD-I Semester (All Branches)

COURSE CODE (CREDITS): 18P1WGE101 (3)

MAX. MARKS: 25

COURSE NAME: RESEARCH METHODOLOGIES INCL QUANTITATIVE METDS & COMP APPLS

COURSE INSTRUCTORS: DS, ASA, AKS, RTK

MAX. TIME: I Hour

Note: (a) All the questions are compulsory.

(b) Marks are indicated against each question in square brackets.

1. Write short notes (max 50 words)

[1x5=5]

- a) Focus Group Discussion
- b) PhD
- c) Sampling Frame
- d) Internal and External Validity
- e) Research Methodology
- 2. "Research may be defined as a scientific approach to answering a research question, solving a research problem, or generating new knowledge through a systematic and orderly collection, organization, and analysis of data to make research findings useful in decision-making". Discuss the above statement in detail. What are the characteristics of a good research?

 [2.5x2=5]
- 3. "Mathematics is absolutely true, whereas social sciences cannot be". Do you agree with this statement? Explain your justification. [5]
- 4. Take a sample topic from your area. Draft a main research question related to the topic. What are the different factors that you need to take into account while drafting the research question?

 [5]
- 5. Differentiate between cluster sampling and stratified sampling. In what situations is cluster sampling preferred over stratified sampling, and vice versa? [5]