# JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
## WAKNAGHAT, SOLAN

### Test – 1 (HSS Module), Ph.D. (All Branches), September 2019

COURSE CODE: 18P1WGE101     MAX MARKS: 25

COURSE NAME: Research Methodologies including Quantitative Methods and Computer Applications

CREDIT: 3     MAX TIME: 1 Hr

*Note: Answer all questions. Carrying mobile phone in the examination hall will be treated as a case of unfairmeans.*

1. Short answers (50 words max)     (1x5=5)

   a) Target Population means .....
   b) Research is defined as .......
   c) Hypothesis is .....
   d) Longitudinal Studies are ....
   e) Stand Alone literature review is ...

2. What do you understand by Qualitative and Quantitative Research Methods? Differentiate these two on the basis of different parameters.     (4)

3. Interpret the given research design:     (4)

| EG1: | R | | X | $O_1$ |
|------|---|---|---|-------|
| CG1: | R | | | $O_2$ |
| EG2: | R | $O_3$ | X | $O_4$ |
| CG2: | R | $O_5$ | | $O_6$ |

4. Recently the Central Government has passed the "Triple Talaq" Bill in the Parliament and now it has become a law. Discuss your Sampling Plan if your objective is to know the perception of Indian Muslims about the law. (You are free to make suitable assumptions, wherever required).     (8)

5. UGC wants to get the feedback from the faculty members of engineering colleges, regarding its new Course Curriculum offered to B.Tech. students where it has reduced the credit requirement for getting the degree. It is expected that about 60% of the faculty members are happy with the decision. What should be the sample size for conducting the survey to estimate the population proportion to ensure a 99 percent confidence in result and to be within 2 percent of the true population? (Z-value at 99% confidence interval is 2.575).     (4)