

Total No. of Questions : 4]

SEAT No. :

P5020

[Total No. of Pages : 1

[6187]-420

T.E. (Civil Engineering) (Insem)

RESEARCH METHODOLOGY AND IPR

(2019 Pattern) (Semester - I) (Elective - I) (301005(B))

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if necessary.

Q1) a) What do you mean by research? Explain its significance in modern times. [7]

b) Write a short note on component of research problem. [8]

OR

Q2) a) Describe fully the techniques of defining a research problem. [7]

b) Indicate the main characteristics of a good hypothesis and uses of a hypothesis in various types of research studies. [8]

Q3) a) Examine the merits and limitations of the observation method in collecting material. Illustrate your answer with suitable examples. [7]

b) Write a short note on use of library in literature survey also state the precautions of library use in literature. [8]

OR

Q4) a) Enumerate the types of data and describe these types in detail with reference to tools, types of research and statistical techniques. [7]

b) Explain the need and functions of review of literature. [8]

