

Total No. of Questions : 8]

SEAT No. :

PA-1427

[Total No. of Pages : 2

[5926]-43

T.E. (Civil Engineering)

RESEARCH METHODOLOGY AND IPR

(2019 Pattern) (Semester - I) (Elective - I) (Theory) (301005b)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagram must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary and clearly state.

- Q1)** a) What are the advantages of primary and secondary data? [9]
b) Indicate the need for data collection and describe the nature of data. [9]

OR

- Q2)** a) Define the term 'Data', How it is different from 'facts' and scores'? [9]
b) What are the various types of interview? Explain the various advantages and limitations of interview. [9]

- Q3)** a) Describe the qualitative and quantitative data interpretation methods. [8]
b) Describe, in brief, the layout of a research report, covering all relevant points. [9]

OR

- Q4)** a) Write a brief note on the 'task of interpretation' in the context of research methodology. [8]
b) Write short notes on Bibliography and its importance in context of research report. [9]

- Q5)** a) Outline the main differences between utility models and patents. Does India have legislation on Utility models? [8]
b) How does WIPO promote the protection of intellectual property? [9]

OR

P.T.O.

- Q6)** a) What are the legislations covering IPRs in India? [8]
b) List out the subject matter protected by intellectual property rights under the World Intellectual Property Organization (WIPO). [9]

- Q7)** a) Write a short notes of following:- [9]
i) Trade mark
ii) Term of copyright
iii) Geographical Indication
b) Comment on the Patent Act 1970 and its amendment. Explain in brief the Patent filing procedure. What are the differences between product Patents and Process Patents? [9]

OR

- Q8)** a) Define Patentability? Explain the utility of patents. [9]
b) Describe Copyright and the works protected under copyright act. Briefly explain the process of obtaining copyright. [9]
