[6003]-332

T.E. (Civil Engineering)
RESEARCH METHODOLOGY AND IPR
(2019 Pattern) (Semester-I) (301005b) (Elective-I)

Time : 2½ Hours]　　　　　　　　　　　　　　　　　*[Max. Marks : 70*

Instructions to the candidates:
1) *Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, and Q.7 or Q.8.*
2) *Neat diagram be drawn whenever necessary.*
3) *Figures to the right indicate full marks.*
4) *Assume suitable data, if necessary and clearly state.*

Q1) a) Write a brief note on different types of analysis of data also state the significance of each. **[9]**

　　b) Indicate the basis for selecting a statistical technique in analysing data for educational research. **[8]**

<div align="center">OR</div>

Q2) a) Explain the phrase 'Analysis of Data' or Treatment of Data'. Indicate the need and importance of data analysis. **[9]**

　　b) Describe the role of statistics and parameters in analysing the data. Illustrate your answer with suitable example. **[8]**

Q3) a) Describe the precautions that the researcher should take while interpreting his findings. **[9]**

　　b) What do you understand by research report or thesis? Indicate its need and importance in the research work. **[9]**

<div align="center">OR</div>

Q4) a) Explain the following terms used in a research. **[9]**

　　　i) Research proposal or synopsis or outline of a research project.

　　　ii) Research report, or thesis or dissertation.

　　　iii) Research summary, and

　　　iv) Research abstracts.

　　b) What are the methods of constructing regression equation? Explain in details. **[9]**

<div align="right">***P.T.O.***</div>

Q5) a) Describe how monopoly nature of owner is controlled by Patent Trademark Organization. **[8]**

b) What are the functions of international intellectual property organizations? **[9]**

OR

Q6) a) Explain different types of intellectual property in detail. **[8]**

b) Define trademark and service mark. **[9]**

Q7) a) Distinguish between Trademark and Trade secrets. **[9]**

b) Write the procedure for "use of mark" owned by Third parties. **[9]**

OR

Q8) a) Explain how the ownership rights and transfers are taken place. **[9]**

b) Describe the advantages of law of patent **[9]**