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Total Number of Pages : 02

Course: M.Tech
Sub_Code: P3PGCC01

3rd Semester Regular/Back Examination: 2023-24
SUBJECT: RESEARCH METHODOLOGY
BRANCH(S): CIVIL ENGG., COMMUNICATION ENGG., COMMUNICATION SYSTEMS, COMPUTER SCIENCE AND ENGG., COMPUTER SCIENCE AND TECH., CONSTRUCTION TECH. AND

Time : 3 Hour
Max Marks : 100
Q.Code : N406

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Answer the following questions : (2 x 10)

- What are the limitations of interview method of data collection?
- What is the significance of research?
- Which non-parametric test is better and why?
- What are the sources of secondary data?
- What is alternate hypothesis?
- What are the applications of sign test?
- Explain about nominal data.
- Which type of sample design is better and why?
- Write the applications of t-test.
- What is the need of SPS Package in research?

Part-II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)

- Explain about the formulation of hypothesis.
- Write about the types of research and research process
- What are the types of research and research process?
- Discuss about the identification of research problem.
- Write the merits and demerits of data collection by questionnaire method.
- Explain the use of sampling fundamentals in research.
- Explain in details about the sample designs.
- Write about the data analysis.
- Explain how the analysis of variance is used in verification of research results.
- Discuss about Chi-square test and its applications.
- Write the use of multiple regressions analysis in research.
- Discuss about the Z-test and Chi-square test.

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

- Q3** Discuss about the Importance of scientific research in decision making and Research Designs. **(16)**
- Q4** Critically discuss about the Measurement and Scaling Techniques. Also discuss about the data processing. **(16)**
- Q5** Write the procedure of testing of hypothesis. Also discuss about the Krushall – Wallis test. **(16)**
- Q6** Discuss about factor analysis and discriminant Analysis with its applications in research with suitable counter examples. **(16)**

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M.Tech
P3PGCC02

3rd Semester Regular/Back Examination: 2023-24

Intellectual Property Rights

BRANCH(S): All

Time : 3 Hour

Max Marks : 100

Q.Code : N418

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Answer the following questions :

(2 x 10)

- What are intellectual property rights?
- Name any four types of intellectual property.
- What can be protected by a patent?
- What is covered by copyright?
- What is Pith and Marrow doctrine?
- What is a Trademark?
- Name any four examples of Trademark.
- What is Misappropriation of Trade Secret?
- What causes a business to lose trade secret protection?
- What is Criminal Liability?

Part-II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)

- Discuss the need for Intellectual Property Right (IPR).
- Write a short note on genesis and development of IPR in India.
- What is intellectual property rights management? Discuss.
- Why should I apply for a patent? Explain.
- What is Revocation of Patent? Explain.
- Why protect copyright? Explain.
- Distinguish between Literal and Non-Literal infringement.
- Write short note on civil and administrative remedies of a patent infringement.
- Define and describe Licensing and Enforcing of intellectual property.
- With a suitable example, explain the term "Equivalent Doctrine".
- What is Clickwrap agreement? Discuss.
- With suitable examples, explain the term "Right of Publicity".

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

- Q3** What is the layout of Patent application? Describe the procedure for domestic and international filing of Patent applications. **(16)**
- Q4** Define copy right. Explain the process of obtaining copyright protection in India. Discuss about copy right transfer and termination. **(16)**
- Q5** Illustrate the followings in IPR: **(8x2)**
a) Trademark
b) Trade secret
- Q6** Write short note on followings: **(4x4)**
a) Gillette Defense
b) Parallel import
c) Departing Employees
d) Federal Preemption