Reg. No. :						
Ncg. 110						

Question Paper Code:U3S01

M.E. DEGREE EXAMINATION, APRIL 2024

First Semester

Communication Systems

21PGM701- RESEARCH METHODOLOGY AND IPR

(Regulations 2021)

(Common to All Branches)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART - A (5 x 20 = 100 Marks)

(a) "Empirical research in India in particular creates so many CO2- App (20) problems for the researchers". State the problems that are usually faced by such researchers.

Or

- (b) A research scholar has to work as a judge and derive the truth and CO2- App (20) not as a pleader who is only eager to prove his case in favor of his plaintiff. Discuss the statement pointing out the objectives of research.
- 2. (a) Belinda is publishing her first article that builds on the research of CO4- Ana (20) a similar project she did three years prior with her colleague, Isaiah. In Belinda's current article she has placed a graph from the article she and Isaiah co- authored about their previous research. Isaiah created the original graph. Does Belinda have to cite the previous article? Analyze in this scenario with self-plagiarism and plagiarism.

Or

(b) Analyze the differences plagiarism checking and fit the suitable CO4- Ana (20) one for your work for relate 4 plagiarism checking software used and Highlight the advantages of any 2-plagiarism checking software used in India.

3. (a) Set up ANOVA table for the following information relating to CO4- Ana (20) three drugs testing to judge the effectiveness in reducing blood pressure for three different groups of people:

1. Do the drugs act differently?

2. Are the different groups of people affected differently? Is the interaction term significant?

3. Answer the above questions taking a significant level of 5%.

4. Analyze the results in comparing the significant level of 5% and 10%.

Amount of Blood Pressure Reduction in Millimeters of Mercury							
Group of People	Х	Y	Z				
٨	14	10	11				
А	15	9	11				
р	12	7	10				
D	11	8	11				
С	10	11	8				
C	11	11	7				
Or							

- (b) How will you differentiate between descriptive statistics and CO4- Ana (20) inferential statistics? Analyze the important statistical measures often used to summarize the survey/research data.
- 4. (a) Analyze the different steps involved in developing a narrate CO4- Ana (20) research proposal. Suggest a case study of sample proposal.

Or

- (b) Analyze why tabulation is considered essential in a research study CO4- Ana (20) based on the characteristics of a good table
- (a) Apply based on the patent information and patent databases to CO2- App (20) develop an unique patent in your research area incorporating innovative methods and design.

Or

(b) Apply the various international collaboration method to filing CO2- App (20) patent applications and grant of patents.

U3S01