Total	No.	of Questions : 6]	SEAT No. :	
P9482 [63] M.E. (Computer Engineerin Scient		[6182]-801 (Computer Engineering) (Artificial	[Total No. of Pages : 2] g) (Artificial Intelligence and Data ce) (Cyber Security) METHODOLGOY	
Instru 1 2	ictio !) !)	Hours] ons to the candidates: All questions are compulsory. Figures to the right indicate full marks. Draw neat diagrams wherever necessary.	[Max. Marks : 50	
 Q1) a) What is importance of Research? What are R Elaborate the terms like research objectives and detail? OR b) What is the significance of the code of ethics in res 		Elaborate the terms like research objective detail? OR	es and research outcomes in [9]	
Q2) a		'ethical aspects' affecting and influencing of What is a research plan? What are elements in Research Proposal?	engineering research? [9]	
1	b)	OR Elaborate the significance of the following i) h-index ii) Patents as a type of research publicat iii) Research Gate in literature survey iv) Paraphrasing in literature survey	O, , ,	
Q 3) :	a)	What is the hypothesis and the Null hypot One- dimensional statistics and Two-Dime OR		
1	b)	State the use of the following tools	[8]	

ANOVA

iv) CAT (Qualitative analysis tool)

SOFA

iii) t-test

i)

ii)

- Q4) a) State the importance of optimization in engineering research? With the help of an example, explain the monte Carlo Optimization Method? [8]
 - b) State the simplex optimization steps? What are constraints and cost function? State the similarity and differences in simplex and gradient methods of optimization? [8]
- Q5) a) What are the guidelines for conducting surveys? What is role of statistical analysis in surveys? What are guidelines for survey reporting? [8]
 - b) What is significance of the research proposal? What is an outline of a research proposal? What is the criteria for evaluating the research proposal? [8]
- Q6) a) What is research Thesis? What are generic contents of the organization of thesis? Why the 'appendix' part in the thesis is important? [9]
 - b) Elaborate following research outcomes and when which publication is to be attempted. [9]
 - i) InPASS (Indian Patents Advanced Search System)
 - ii) Copyright
 - iii) Research Paper

