1901N1614

IMRS Sem.-1 (Rep) Examination Logic & Critical Thinking-I January-2024

Time: 2-30 Hours]

[Max. Marks: 70

Instructions:

- 1. The figures on right hand side indicates marks.
- 2. Use of calculator is NOT allowed

Question 1: Explain truth of propositions and validity of arguments giving examples of all seven possible cases which may arise from true/ false of propositions and valid/ invalid arguments? [14 marks]

Or

Question 1 (A): Explain briefly the term critical thinking and enlist the steps of critical analysis?

[7 marks]

And

Question 1 (B): Explain Deductive Argument with example

[7 marks]

Question 2: Draw and explain Venn diagram for four types of categorical statements and the modern square of opposition [14 marks]

Or

Question 2 (A): Enlist the seven different thinking habits according to California Critical thinking Disposition inventory [7 marks]

And

Question 2 (B): Explain Quality and Quantity of Propositions along with examples?

[7 marks]

Question 3: Explain traditional square of opposition, along with contradictories, contraries, sub-contraries and sub-alteration [14 marks]

Or

N1614-2	[7 marks]
Question 3 (A): What are the ten data design do's and don'ts?	
And Question 3 (B): Explain in brief the framework for ethical decision making	[7 marks]
Question 4: Explain what is a truth table and what are the steps of making a trut at least two examples.	th table with [14 marks]
Or	
Question 4 (A): Enlist and explain in brief the methods of Qualitative data analysis [7 marks]	
And	
Question 4 (B): Enlist and briefly explain the ten rules for ethical arguments	[7 marks]
Question 5: Answer the following MCQs (Attempt Any 14 out of 16)	[14 marks]
Mention True or False	
 a. All reasoning is mental activity but all mental activity is not reasoning b. The four mental processes are Imagining, Daydreaming, Reasoning and Remembering c. Interrogative and Exploratory sentences are not propositions because the affirmed, denied or judged to be true of false d. All sentences are propositions but every proposition is not a sentence e. "Bring a glass of Water" is a proposition f. A logician studies "actual mental processes" g. A logician is interested in "how and why do we reason" h. Pathos is used to convey the writer's credibility and authority. i. Ethos is the appeal to emotion 	ney cannot be
Fill in the blanks with correct words from the following: (biconditional, conditional,	
j. The statement ~A is called a k. The statement D • C is called a l. The statement P ∨ E is called a m. The statement W ⊃ F is called a n. Lastly, B ≡ R is called a o. The content of the argument is p. The order in which the content is arranged is	