M 8603



is Computers can perform multiple D-TRA9 ltaneously. This tenture is inforted

Answer any two questions. Each question carries a weightage of four. Answer should not exceed 200 words.

- 29. Distinguish between material implication and material equivalence and demonstrate their truth tables.
- 30. Describe the method of testing the validity of argument forms by truth table method. Test the validity of the following by truth table method:

$$(p,q)\supset \sim p$$
.

- 31. Define formal proof of validity and present the symbolic form of the nine elementary valid argument forms.
- 32. Describe the origin, development and scope of internet.

(Weightage 2×4=8)

J. No. :

M 8603

Reg. No. :					
Name :	selat (o				
	SS-Reg./Supple./Imp.) I DURSE IN PHILOSOPI Imbolic Logic and Info (2013 Admn.)	The partial commYH			
Time: 3 Hours		Max. Weightage: 24			
	PART-A				
Answer all questions. A bunch of	4 questions carries a weig	htage of one .			
is the book that formulations.	is the book that demonstrates logician's interest in mathematical formulations.				
a) Meditations	b) Language, truth a	and logic			
c) Tractatus logico philosophi	cus d) Principia mathem	natica			
2. The symbol '⊃' is a	The symbol '⊃' is a lo englezangy but the ammount d'historid li C				
a) constant					
c) variable	d) statement				
3is a compound p	is a compound proposition.				
a) Disjunctive	b) Bi-conditional				
c) Conjunctive	d) All these				
4. If the statement 'John is not a	If the statement 'John is not a miser' is symbolized as ~ M, then M stands for				
a) not John	b) not a miser				
c) John is a miser	d) John is not				
5. '~S' is the symbolic representa	ation of ap	roposition.			
a) simple affirmative	b) compound affirm	ative			
c) simple negative	d) compound negat	compound negative			

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6.	In a conjunctive proposition, if 'p'	is true	e and 'q' is false 'p . q' is		
	a) true		false		
	c) both a) and b)	d)	neither a) nor b)		
7.	The partial common meaning of disjunction is applicable todisjunction.				
	a) inclusive	b)	exclusive		
	c) both a) and b)	d)	neither a) nor b)		
8.	Two propositions are materially equivalent when they are both				
	a) true	b)	false		
	c) both a) and b)	d)	neither a) nor b)		
9.	'p' and are logically equivalent.				
	a) q	b)	p.q		
	c) ~p		~~p		
10.	De Morgan's theorems are two expressions of				
	a) logical equivalence	b)	symbolic logic		
	c) material equivalence	d)	syllogism		
11.	By truth table method it can be proved that $(p \supset q) \equiv (\sim q \supset \sim p)$ is a				
	a) contradiction		tautology		
	c) contingent statement form	d)	all these		
12.	'p, ∴ p ∨ q' is the symbolic representation of				
	a) conjunction	b)	addition		
	c) simplification	d)	absorption		
13.	coined the word informatik.				
	a) Karl Steinbuch	b)	Karl Marx		
	c) Bertrand Russell	d)	None of these		
4.	Unlike humans, computers use	100	to process data into information.		
	a) words	b)	keys		
	c) numbers				

15.	Computers can perform multiple to as	e tasks simultaneously.	This feature is referred
	a) accuracy	b) versatility	
	c) speed	d) all these	
16.	Internet supports the field of		
	a) commerce	b) education	
	c) communication	d) all these	(Weightage 4×1=4)

PART-B

Answer any four questions. Each question carries a weightage of one. Answer should not exceed 20 words.

- 17. Write a short note on the use of symbols in logic.
- 18. Define truth functional compound statement.
- 19. Present the truth table for negation.
- 20. Symbolize 'If Leela is late, then she will miss the train.
- 21. What is the significance of internet as a memory platform?
- 22. Distinguish between data and information.

(Weightage 4×1=4)

PART-C

Answer any four questions. Each question carries a weightage of two. Answer should not exceed 100 words.

- 23. Summarize the main differences between traditional and symbolic logic.
- 24. Determine the truth-value of the conclusions in four possible combinations of T and F in p . q.
- 25. Write a note on disjunction and present its truth table.
- 26. If p is true and q is false, find out the truth-value of \sim (p \vee q) by truth table method.
- 27. Distinguish between tautology and contradiction. Give examples.
- 28. Describe the scope of INFLIBNET as a database.

(Weightage 4×2=8)