Construct formal proof of validity for each of the		
following (any TWO):		

(i) $(X) (B_x \supset \sim C_x)$ $(\exists_x) (C_x \cdot D_x)$

(B)

- $\therefore (\exists_{x}) (D_{x} \cdot \sim B_{x})$ (ii) $(\exists_{y}) (P_{y} \cdot \sim Q_{y})$
 - $(X) (P_x ⊃ R_x)$ ∴ $(∃_x) (R_x · ~ Q_x)$
- (iii) (X) $(F_x \supset G_x)$ $(\exists_x) (F_x \cdot \sim G_x)$ $\therefore (\exists_x) (G_x \cdot \sim F_x).$
- 11. Explain the types of definition with suitable examples.
- 12. Explain rules for definition.

LL.B. Semester-II (Five Year Degree Course) Examination

PHILOSOPHY-II

(Pattern-2009)

Paper-V

Time—Three Hours] [Maximum Marks—100

- Note:—(1) Solve in all SEVEN questions including Question No. 1 which is compulsory and carries 16 marks.
 - (2) All other questions carry 14 marks each.
 - (3) Figures to right indicate marks.
- 1. (A) Complete the following:
 - (i) A statement form that has only true substitution instances is said to be _____.
 - (ii) (X) is a _____ quantifier.
 - (iii) '⊃' is a symbol for _____.
 - (iv) A, B, C, D are called _____. 4
 - (B) State whether following are true or false:
 - (i) Statement constant and statement variables are different.

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(C)		(ii)	Antecedent and consequent are par implicative statement.		then our problem is a practical one. The laws are good. Therefore our problem is a practical one. (G, S, D, P).			
			Validity of an argument depends on its values. The principle of excluded middle asser every statement is either true or false.		(ii) If the victim had money in his pockets, then robbery wasn't the motive for the crime. But robbery or vengeance was the motive for the			
	(C)	Def	ine following terms (any FOUR): Simple predicate		crime. The victim had money in his pockets. Therefore vengeance must have been the motive for the crime. (N, R, V).			
	,	(ii) (iii) (iv)	Truth functional connectives Statement variable Argument form		(iii) If the litmus paper turns red, then the solution is acid. Hence if the litmus paper turns red then either the solution is acid or something i			
		(v) (vi)	Universal quantifier Tautology	8	wrong somewhere. (R, A, W). 9. (A) Explain quantification rules of EI, UI, UG and EC			
2.	(A) (B)	exa	plain paradoxes of material implication with amples. gument and argument form.	suitable 10 4	(B) Using appropriate quantifier and propositional function symbolize the following (any TWO):			
3.	Wr	ite s	hort notes on:		 (i) All that glitters is not gold (G_x, A_x) (ii) Snake bites re sometimes fatal (S_x, F_x) 			
	(i) (ii)	Va	alid argument forms.	14	 (ii) Snake bites re sometimes fatal (S_x, F_x) (iii) Ambassadors are always dignified (A_x, D_x) 			
4.	(A)		xplain three laws of thoughts with example consistency.	10 4	(iv) Reporters are present (R_x, P_x).10. (A) Explain the propositional function.			
יט	WO-4		2	(Contd.)	UWO—43958 5 (Conto			

(A) Define implicative statement. Explain its truth table. 5.

- Symbolize the following by using the abbreviations suggested (any TWO):
 - If Argentina does not mobilize then either Brazil (i) will not protest to the UN or Chile will not call for a meeting of all the Latin American States (A,B,C).
 - If Argentina mobilizes then Brazil protest to the (ii) UN, then both Chile and the Dominican Republic will call for a meeting of all the Latin American States (A, B, C, D).
 - (iii) It is not the case that Argentina mobilizes then Brazil will not protest to the UN, and Chile will call for a meeting of all the Latin American States (A, B, C). 8
- (A) Explain the shorter truth table method of proving invalidity of argument. 6
 - (B) Use longer truth table method to determine the validity or invalidity of the following arguments (any TWO)
 - (i) $A \supset B$ $B\supset C$

 $\therefore C \supset A$

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(ii)
$$(R \lor S) \supset T$$

 $T \supset (R \cdot S) / \therefore (R \cdot S) \supset (R \lor S)$

(iii)
$$(A \lor B) \supset (A \cdot B)$$

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7. (A) Elaborate rules of inference (any THREE). 6

 $\sim (A \vee B)/:. \sim (A \cdot B).$

(B) Construct a formal proof of validity for the following arguments (any TWO).

(i)
$$(A \lor B) \supset \sim C$$

 $C \vee D$

A/.: D

(ii)
$$Q \supset (R \vee S)$$

 $(T \cdot U) \supset R$

$$(R \vee S) \supset (T \cdot U) / \therefore Q \supset R$$

(iii) W⊃X

 $(W \cdot X) \supset Y$

$$(\mathbf{W} \cdot \mathbf{X}) \supset \mathbf{Z} / : \mathbf{W} \supset \mathbf{Z}.$$

8

8. (A) Explain rules of replacement (any THREE).

- (B) Symbolize the following arguments, and construct a formal proof of validity (any TWO):
 - If the laws are good and their enforcement is strict, then crime will diminish. If strict enforcement of laws will make crime diminish,

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