

**3/PHI-200 Syllabus-2023**

**2025**

( Nov-Dec )

**FYUP : 3rd Semester Examination**

MAJOR

**PHILOSOPHY**

( Logic )

**PHI-200**

Marks : 75

Time : 3 hours

*The figures in the margin indicate full marks  
for the questions*

Answer any **five** questions

1. "Logic is the science of correct reasoning."  
Do you agree with this statement? Give  
reasons for your answer. 1+14=15
2. What is a proposition? Distinguish  
Proposition from Sentence and Judgement  
with examples. 5+10=15

26D/615

( Turn Over )

( 2 )

3. How is the truth of a proposition related to the validity of an argument? Discuss in detail with the help of illustration.  $10+5=15$
4. What do you understand by denotation and connotation? Show how both are inversely related.  $5+10=15$
5. Define syllogism. State and explain the rules of categorical syllogism.  $3+12=15$
6. What is 'definition' in logic? Explain denotative, connotative and ostensive definition.  $3+12=15$
7. What are the rules for definition by genus and differences? Explain fully. 15
8. Write short notes on any two of the following :  $7\frac{1}{2}\times 2=15$
- (a) Square of opposition
  - (b) Argument
  - (c) Fundamental laws of thought
  - (d) Logical constant and variables

( 3 )

9. Symbolize any *five* of the following :  $3 \times 5 = 15$

- (a) America and Iran will not both raise the price of natural gas.
- (b) It is not the case that neither Mira nor Sita will win the election.
- (c) Tom and Sam both work late only if it is not a holiday.
- (d) Either taxes are increased or if expenditure rises, then the debt ceiling is raised.
- (e) If the king does not Castle and the pawn advances, then either the bishop is blocked or the rook is pinned.
- (f) Atlanta wins their Conference Championship and either Baltimore wins their Conference Championship or Dallas does not win the Seperbowl.
- (g) John and Jacob will both contest for the election.
- (h) You will succeed if and only if you work hard.

( 4 )

10. Construct the truth table for any *three* of the following and find out whether they are valid or invalid : 5×3=15

(a)  $p \supset q$

$\sim q$

$\therefore \sim p$

(b)  $(p \supset q) \vee \sim r$

$\sim p \vee \sim q$

$\therefore q \cdot r$

(c)  $p \vee q$

$p$

$\therefore \sim q$

(d)  $(p \vee q) \cdot r$

$q \vee r$

$\therefore p \supset r$

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