3/PHI-200 Syllabus-2023

2024

(December)

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

- What is logic? Is logic a science or an art, or both? Discuss.
 5+10=15
- **2.** Examine briefly the five kinds of definitions. 15
- What are the fundamental laws of thought in logic? Examine in detail the different laws of thought.
 5+10=15

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(Turn Over)

- 4. What are formal fallacies? Explain three of the formal fallacies briefly. 5+10=15
- 5. State and explain different rules of categorical syllogism.
- **6.** What is a proposition? Distinguish it from sentence and judgement. 5+10=15
- 7. Explain the functioning of the logical constants and variables. Describe logical connectives with examples. 10+5=15
- **8.** Discuss the relation between truth and validity. Can there be valid argument with false premise? 10+5=15
- **9.** Symbolize any five of the following: $3\times5=15$
 - (a) A State will develop only if there is peace.
 - (b) Moon and stars both will rise in the sky only if it is not day.
 - (c) Either Mary or Lily will win the race but they will not both win the race.
 - (d) It will rain only if the sky is cloudy and the weather is not windy.
 - (e) If all men are mortal and Socrates is a man, then Socrates is mortal.

- (f) If you work hard, then you will gain and live happy.
- (g) If John joins the tournament, then either he will win or lose.
- (h) You will definitely achieve success if and only if you work hard.
- 10. Construct the truth tables for any three of the following statement forms, and determine those as tautologous, contradictory or contingent:
 5×3=15
 - (a) $(p \supset q) \cdot r$
 - $(b) \quad p \supset q$ $\sim q$ $\therefore \sim p$
 - (c) p ⊃ q ~ p ∴~ q
 - $(d) \sim p \supset \sim q$ $\sim q$ $\therefore p$
 - (e) *p* ∨ *q p* ∴ *q*