2/EH-20 (ii) (Syllabus-2015)

5. What do you me 9102 egond syllogism?

Explain different materials mislogal (April)

of betales not PHILOSOPHY

(Elective/Honours)

(Logic) T. Write short notes on an three of

BI-EXE I Weather (PHIL: 11) e se santosila

Marks: 75

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer any five questions

1. What is logic? Is logic a science or an art, or both? Discuss. 5+10=15

constants and variables Describe lowers

- 2. Examine briefly the five kinds of definitions.
- 3. What are the fundamental laws of thought in logic? Examine the different laws of thought. 5+10=15
- 4. Examine and explain the fallacies of presumption with examples. 15

(2/E)(-2)(ii) (Byllabus-2015)

D9/1596

(Turn Over)

5. What do you mean by categorial syllogism?

6+9=15 syllogism. 6. How is the truth of a proposition related to the validity of an argument? Discuss in detail

Explain different rules of categorical

- with the help of illustration. 10+5=15 7. Write short notes on any three of the 5×3=15 following:
- (a) Soundness of an argument
 - (b) Dictum de omni et nullo as the first principle
 - (c) Fallacy of ambiguity (d) Concept of Denotation and Connotation
- 8. Explain the functioning of the logical constants and variables. Describe logical

only if it is not day.

Classification of propositions

- connectives with examples. 10+5=15 9. Symbolize any five of the following: 3×5=15 (a) Moon and stars both will rise in the sky
- they will not both win the race. D9/1596 (Continued)

(b) Either Mary or Lilly will win the race but

win second prize.

(d) It will rain only if the sky is cloudy and

Ed wins first prize unless Fred does not

(3)

- the weather is not windy. (e) If Alice is elected President then it is not
- the case that neither Betty is elected vice-President nor Carol is elected treasurer. If weather is warm and the sky is clear then either we go swimming or we go
- boating. It is not the case that if we do not go swimming then the sky is not clear. Therefore, either the weather is warm or we go boating. (g) If the cost of living rises or government revenues increase, then salary increase will be granted. No salary increase will
- be granted. Therefore, government revenue will not increase. 10. Construct truth tables for any three of the following and find out whether they are tautologous, contradictory or contingent:
 - $\sim q / :: r \supset \sim p$
- D9/1596

(a) $\sim p \supset \sim q$

(b) $p \supset (q \cdot r)$

~ q / :. p

(Turn Over)

5×3=15

(c) $(p \supset q) \supset (p \cdot q)$ p. q / .: pvq

 $p \supset (p \cdot q)$ and if the $(p \cdot q) \subset q$

the weather is ne

(e) $\sim (p \vee q) \equiv (\sim p \cdot \sim q)$ $(f) \sim p(p \supset q) \supset p$

if weather is warm and the sky is clear,

then either we so swimming or we go

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10. Construct truth tables for anywhree of the

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only if it mot day.

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5*3-15