

[Time: 2 Hrs]

[Marks: 60]

Please check whether you have got the right question paper.

- N.B:
1. Attempt all questions.
 2. Figures to the right indicate full marks.

Q. 1 Answer the following in one or two sentences: (any six) (12)

- i) Define inference, Give an example.
- ii) Define term. Give an example.
- iii) Define proposition.
- iv) What is contrary and contradictory term?
- v) What is fundamental divisions?
- vi) State the law of Excluded middle.
- vii) Define free consent as per Law of Contract.
- viii) Define Extensive definition, Give example.
- ix) Define eduction
- x) What is divisions by dichotomy?

Q. 2 Write short notes on any two: (12)

- i) Connotation and Denotation:
- ii) Universe of discourse
- iii) Industry (Industrial Law)
- iv) Rules of Division.

Q. 3 Attempt any two questions:- (12)

- a) Reduce the following sentences to logical form and identify the kind of proposition as per traditional logic. Name the terms that are distributed.
 - i) Graduates alone are eligible.
 - ii) Few Indians wrestlers are long-lived.
 - iii) Only ignorant persons hold such opinions.
- b)
 - i) Identify the following compound proposition, symbolize it, and construct a truth table for it.
"You will catch plane if and only if you reach in time".
 - ii) Using quantifiers and the given notation, symbolize the following general propositions:-
 - 1) No athletes are bookworms. (Ax, Bx)
 - 2) Not every applicant was hired (Ax, Hx)
 - 3) All that glitters is not gold (Gx, Ax)
- c) Identify the following modern definitions giving reasons for your answers.
 - 1) Alcohol is a kind of medicine
 - 2) Man is a civilized rational animal
 - 3) The child is father of the man.
- d) Identify the fallacies in the following logical divisions, giving reasons to your answers.
 - 1) Man into Indians, Chinese and educated.
 - 2) Triangles into Equilateral and Isosceles.
 - 3) Metals into white, heavy, ductile and precious.

Q. 4

Answer the following questions in detail. Any one question from 'a', 'b', 'c' and 'd' is compulsory. (24)

- Explain in what sense logic is a science and an Art? Bring out the nature scope and its significance in law courts.
- Explain four fold classification of propositions.
- Define "Immediate inference" and "opposition of propositions". Discuss in detail, Inference by opposition with the help of square of opposition.
- Do as directed:-**
 - State the contrary and contradictory of, 'All successful executive are intelligent people.'
 - State the Sub-Contrary and contradictory. of 'No animals with horns are carnivores'.
 - State the Sub-contrary and subaltern of, 'some uranium isotopes are highly unstable substances'.
 - State the converse and obverse of 'Some men are wise.'
 - State the converse and obverse of, All men are fallible.
 - State the converse and obverse of 'Some philosophers are consistent'.

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