

BACHELOR'S DEGREE EXAMINATION, OCTOBER 2025
2025 ADMISSIONS REGULAR
SEMESTER I - MINOR - B (LOGIC)
LO1DSCB101B24 - Introduction to Logic

Time : 1.5 Hours

Maximum Marks : 50

Part A

Answer all questions. Each question carries 1 mark.

(1x10=10)

1. Form a Categorical Proposition using the terms 'cats' and 'dogs'. [CO1,Apply]
2. Give an example for a disjunctive proposition [CO1,Understand]
3. Differentiate Univocal and Equivocal Terms [CO1,Understand]
4. Differentiate between propositions and arguments [CO2,Understand]
5. Elucidate the structure of an argument [CO2,Understand]
6. State the Law of Identity [CO2,Remember]
7. Illustrate the Venn diagram for 'I' proposition. [CO3,Understand]
8. Differentiate mediate and immediate inference [CO3,Understand]
9. List the qualities of a categorical proposition [CO3,Remember]
10. Classify Syllogism [CO4,Understand]

Part B

Answer any 2 questions from the bunch of CO1. Each question carries 5 mark.

(5x2=10)

11. Identify the terms from the following propositions: a) All babies are mortal b) All fishes are mammals c) No girls are women d) Some churidars are dark grey e) Some cars are not gearless [CO1,Apply]
12. Identify the terms from the following propositions: a) All kittens are mammals b) St. Teresa's college is an autonomous institution c) No ceiling fans are cats d) Some shirts are olive green e) Some dogs are not black [CO1,Apply]
13. Identify the propositions from the following: a) All ministers of Kerala are members of the legislative assembly. b) I don't like Beef! c) All who eat Beef are those who will go to hell. d) Will you go to heaven? e) Pray five times a day. [CO1,Apply]

Part B

Answer any 2 questions from the bunch of CO2. Each question carries 5 mark.

(5x2=10)

14. Critically examine the law of Identity [CO2,Understand]
15. Identify the premises and conclusion: a) Whatever moves is moved by something else. Consequently, there must be a First Mover that creates this chain reaction of motions. b) Since lightning is followed by thunder, lightning causes thunder. c) In view of the fact that there is a bus strike tomorrow, we will be resorting to online classes. d) All cats can fly. Because all cats are mammals and all mammals can fly. e) My best friend has a headache. Paracetamol is good for headache. As a result, my friend should take Paracetamol [CO2,Apply]
16. Critically examine the law of non-contradiction [CO2,Understand]

Part B

Answer any 2 questions from the bunch of CO3. Each question carries 5 mark.

(5x2=10)

17. Find the converses of the following propositions: 1. No mortals are men. 2. All cats are mammals. 3. Some poets are not idealists. 4. Some saints are polite. [CO3,Apply]

18. Find the contrapositives of the following propositions: 1. No mortals are men. 2. All cats are mammals. 3. Some poets are not idealists. 4. Some saints are polite. [CO3,Apply]
19. Find the contrapositives of the following propositions: 1. No umpires are partisans. 2. Some metals are conductors. 3. Some nations were not belligerents. 4. All dogs are animals. [CO3,Apply]

Part C

Answer any 1 question from the bunch of CO4. Each question carries 10 mark. (10x1=10)

20. Explain the rules and fallacies of Categorical syllogism. [CO4,Understand]
21. Explain the process of rebutting a dilemma [CO4,Understand]