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BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2024 2023 ADMISSIONS REGULAR

SEMESTER III - COMPLEMENTARY COURSE 2 (LOGIC) EC3B03B23 - Logic

Time: 3 Hours Maximum Marks: 80

Part A

I. Answer any Ten questions. Each question carries 2 marks

(10x2=20)

- 1. Differentiate between proposition and sentence.
- 2. What is deductive reasoning?
- 3. Define contraposition.
- 4. What is immediate inferences.
- 5. Define contradictories.
- 6. State quantity and quality.
- 7. What is mixed syllogism?
- 8. Find out the mood of the following

All rabbits are mamals

All dogs are mamals

Therefore all rabbits are dogs

- 9. What is modus ponens?
- 10. List out the postulates of induction.
- 11. State problem of induction.
- 12. What do you mean by informal fallacy?

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

- 13. Differentiate between inductive and deductive method
- 14. Convert the sentence into its logical form:
 - i) Most of the students are not hostellers.
 - ii)Few discoveries are due to accidents.
- 15. Change the quality but not the quantity of the following statements:
 - 1. All owners of pit bull terriers are persons who can expect expensive lawsuits.
 - 2. No tax proposals that favor the rich are fair proposals.
- 16. Change both the quality and the quantity of the following statements.
 - · All oil spills are events catastrophic to the environment.
 - No alcoholics are people with a healthy diet.
 - Some Mexican vacations are episodes that end with gastrointestinal distress.
 - · Some corporate lawyers are not people with a social conscience.
 - · All oil based paints are products that contribute to photochemical smog.
- 17. Name the fallacy committed by the given syllogism.

All snakes are dangerous animals

Some snakes are reptiles

Therefore, some dangerous animals are not reptiles

- 18. What is categorical syllogism? State its rules and fallacies.
- 19. Describe any three relations in the traditional square of opposition.
- 20. What is Induction? Explain the problem of induction.
- 21. Comment on 'The argument from ignorance'.

Part C

III. Answer any Two questions. Each question carries 15 marks

(2x15=30)

- 22. Define immediate inference. Explain square of opposition.
- 23. Define categorical syllogism. Explain its rules and fallacies with examples.
- 24. What is scientific induction? Explain its charecteristics of scientific induction.
- 25. Differentiate between the fallacy of appeal to emotion and fallacy of appeal to force.