B. A. DEGREE (C.B.C.S.S.) EXAMINATION, OCTOBER 2018
(2017 Admissions Regular, 2016 Admissions Supplementary/Improvement & 2015 Admissions Supplementary)
SEMESTER III - COMPLEMENTARY COURSE (ECONOMICS)
EC3C01B - LOGIC

Time: Three Hours   Maximum Marks: 80

PART A

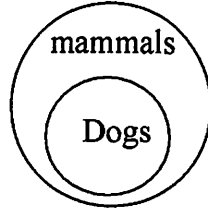**I   Answer all questions. Each question carries 1 mark**

1. Define term
2. Define categorical proposition
3. State law of causation.
4. Truth and falsity are characteristic of ------------.
5. Define Logic
6. The converse of "Some children are soldiers"is--------

                                                                            (6x1=6)

PART B

II. Answer any seven questions. Each question carries 2 marks

7. Write the statement represented by the following Euler's diagram.

8. For each of the following categorical propositions identify the quantity, quality and name the type of proposition. Also state whether the subject and predicate terms are distributed or undistributed.

    (i) All governments that bargain with terrorists are governments that encourage terrorism.

    (ii) Some recently identified unstable elements were not entirely accidental discoveries

9. Use square of opposition to determine the truth and falsity of the following immediate inferences.

    (i) It is false that some lunar craters are volcanic formations. Therefore, no lunar craters are volcanic formations.

10. Give contra position the following propositions

    (i) Some form of carbon are not substances with crystalline structure.

    (ii) All hurricanes are storm intensified with global warming

11. Draw Venn diagram for the following propositions:
    (i)   Some electric motors are machines that depend on magnetism
    (ii) All rock music lovers are fans of Madonna

12 Give converse of the following propositions
    (i) Some form of carbon are not substance with crystalline structure
    (ii)All hurricanes are strong intensified with global warming.

13 Obverse the following proposition:
    (i)   Some college football coaches are persons who do not slip money to their players.
    (ii) No organ transplants are sensible operations.

14 Translate the following statements into its logical form of categorical propositions.
    (i)   A few organic silicones are used as lubricants.
    (ii) All flowers are not fragrant.

15 Define the fallacy of illicit major.

16 Define analogy

$(7x2=14)$

PART C

III. Answer any five questions. Each question carries 6 marks

17 Write short notes on Law of causation.

18 Why does 'A' proposition does not have direct conversion?

19 Define contraposition and show which proposition do have valid contraposition

20 Explain with Eulers circle the classification of categorical propositions.

21 What is disjunctive syllogism? state its rules and fallacies

22 Define contradictory proposition. Examine the truth and falsity of the Proposition.

23 Define the structure of categorical syllogism.

24 What is hypothesis? How it is verified?

$(5x6=30)$

PART D

IV. Answer any two questions. Each question carries 15 marks

25. What are the postulates of Induction?

26. What is dilemma? Explain the fallacy of Rebuttual.

27. Write a notes on square of opposition.

28. Write short notes on immediate inference of Education. $(2x15=30)$