

TB171260D

Reg.No.....

Name.....

**B. A. DEGREE (C.B.C.S.S.) EXAMINATION, OCTOBER 2018**  
**(2015 & 2016 Admissions Supplementary & 2017 Admissions Improvement /**  
**Supplementary)**  
**SEMESTER I - COMPLEMENTARY COURSE (LOGIC)**  
**EC1C03B -LOGIC**  
**(For SOCIOLOGY)**

**Time: Three Hours**

**Maximum Marks: 80**

**PART A**

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

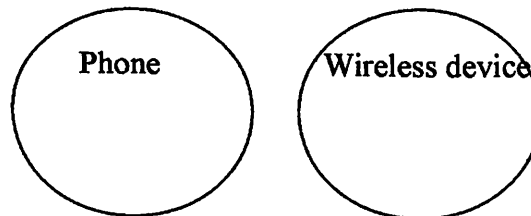
- 1) Observation is necessary part of .....  
(Syllogism, Conversion, Scientific Induction)
- 2) Define denotation.
- 3) Define categorical syllogism
- 4) What is inductive leap?
- 5) What is illicit major
- 6) Define contrary proposition.

**(6x1 = 6)**

**PART B**

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

- 7) Write the statement that goes along with the following 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 drunk drivers are threats to others on the highway.
  - (ii) No tax proposals that favour the rich are fair proposals.
- 9) Use the square of opposition to determine the truth and falsity of the following immediate inferences:
  - (i) All trial lawyers are persons with stressful jobs.  
Therefore, some trial lawyers are persons with stressful jobs.
- 10) Give contra positive the following propositions:
  - (i) Some insurance companies are not humanitarian organizations:
  - (ii) All fossil fuels are unrenewable energy sources.
- 11) Draw Venn diagram for the following propositions
  - (i) All electric motors are machines that depend on magnetism.
  - (ii) Some rock music lovers are fans of Madona

- 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) Any bank that makes too many risky loans will fail.
  - (ii) Bromine is extractable sea water.
16. Define the fallacy of undistributed middle.

(7x2 =14)

### PART C

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

17. Define uniformity of nature.
18. Why does 'O' proposition does not have conversion ?
19. Define conversion and state its rules.
20. Why is logic a normative science Explain.
21. Discuss the classification of categorical proposition.
22. What is hypothetical syllogism ? state its rules and fallacies.
23. Define sub-alter proposition. Examine the truth and falsity of the proposition.
24. Determine the figure and mood of the syllogism.  
 All pilots are graduates  
 No gardeners are pilots  
 Therefore, some gardens are not graduates.

(5x6 = 30)

### PART D

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

- 25) Examine the relation differences between deductive and inductive arguments.
- 26) Define Dilemma ? show with examples any two types of dilemma ?
- 27) Write notes on square of opposition.
- 28) What are the characteristics of scientific Induction.

(2x15 = 30)