BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF COMMERCE

DEPARTMENT OF INTELLIGENCE AND SECURITY STUDIES

BACHELOR OF COMMERCE IN FINANCIAL INTELLIGENCE PART 2

FI 204	:	**LOGIC**
DURATION :		**3 HOURS**
TOTAL	:	**100 MARKS**

OCT 2024

INSTRUCTIONS TO CANDIDATES:

1. Answer any **four** questions
2. Each question carries **25** marks
3. Cell phones are not allowed in the exam room.
4. Begin each answer on a fresh page.

Question One

a) Identify the premises and conclusions exhibited by the following passages.

i) Supernovas (exploding stars) all seem to give off the same amount of light at their peak brightness. If they are dim, they are far away. If bright, they are nearer by a predictable degree. Thus they are considered reliable indications of distance.   (4)

ii) Older women have less freedom to fight sexual harassment at their jobs or to leave a battering husband because age discrimination means they won't easily find other ways of supporting themselves.   (3)

iii) Since affirmative action involves giving a less qualified person a job, affirmative action is unjust, after all, the most qualified person deserves the job.   (3)

iv) The essence of our admirable economic system is to create wants as fast as or faster than it satisfies them. Thus the improvement of living conditions, meaning greater consumer satisfaction is by definition impossible.   (2)

b) Demonstrate the applicability of Logic in Financial Intelligence.   (13)

[Total 25 marks]

Question Two

a) Examine the importance of any **three** language functions in logic.   (12)

b) Explain each of the following verbal disputes:

i) Vee: Hellen lives a long way from campus. I walked out to see her the other day and it took me nearly two hours to get there.

Val: Hellen doesn't live a long way from campus, I drove her last night and we arrived at her place in less than ten minutes.   (3)

ii) Vee: Mr Green is a real Christian, he speaks well of everyone and is never busy to give a family assistance to anyone who is in need.

Val: No, I would not call Green a Christian. He spends his Sundays working in his yard, playing out on the golf course, never showing face in church from one end of the year to the other.   (5)

iii) Vee: Dick finally got rid of that old Ford of his and bought himself a new car; he is driving a Jeep now.

Val: Dick did not buy himself a new car, that car is a good ten year old.   (5)

[Total 25 marks]

Question Three

a) Explain the implications of employing the fallacy of irrelevant conclusion in financial intelligence. (6)

b) Name the form of the following categorical syllogisms and test the validity by means of venn diagrams.

i) No human is omnipotent. All divine beings are omnipotent. Therefore no human is divine. (6)

ii) Every wicked person is self-deceived for all liars are wicked and every liar is self-deceived. (7)

iii) Some mental habit is an object of an organism because no scientific mental habit is an animal and some organism is an animal. (6)

[Total 25 marks]

Question Four

a) Identify and explain the language functions intended to be served by each of the following passages.

i) If I speak in the tongues of man and of angels without love I am a noisy gong or a clanging cymbal. (3)

ii) If he really thinks that there is no distinction between virtue and vice why, sir when he leaves our houses let us count our spoons. (3)

iii) They have no lawyers among them for they consider them as a sort of people whose profession is to disguise matters. (3)

iv) There is nothing immoral about business bluffing. One would simply be acting according to the rules of the game. In order to win the game one has to bluff and bluff hard! (3)

b) Evaluate the effectiveness of any **three** methods of scientific enquiry in the investigation of white collar crimes. (13)

[Total 25 marks]

Question Five

Discuss the importance of deductive reasoning in financial intelligence. **(25 marks)**

Question Six

a) Define a merely verbal dispute. (1)

b) Write the following syllogistic forms using s and p as the subject and predicate terms and m as the middle term and test their validity by means of venn diagrams.

i)   IEO-1 (3)

ii)   EEA-1 (3)

iii) AEE-2 (3)

iv)   EAE-4 (3)

c) Identify and explain the kinds of agreements and disagreements exhibited by the following passages.

i)   Vee: John is corrupt he asked him to pay an extra fee so as to render his service.

Val: John was not corrupt he was simply making life easier for him. (4)

ii) Vee: farming is a senseless pursuit, a mere laboring in a circle. You sow that you may reap and then you reap that you may sow. Nothing ever comes out of it.

Val : No occupation is delightful to me as the culture of the earth. (4)

iii) Vee: Absence makes the heart grow fonder

Val: Out of sight, out of mind. (4)

[Total 25 marks]

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