

GENERAL CERTIFICATE OF EDUCATION BOARD

General Certificate of Education Examination

Philosophy 3

0790

JUNE 2022

ADVANCED LEVEL

Subject Title	PHILOSOPHY
Paper No./Title	Paper 3 (Problem-Solving and Analysis)
Subject Code No.	0790

Three hours

Candidates are required to answer FOUR questions, choosing TWO questions from each Section imperatively.
Each question carries 25 marks.

- An Introduction – 5marks;
- A thesis – 7marks;
- An antithesis – 6marks;
- A synthesis – 3marks;
- A conclusion – 4marks;

You are reminded of the necessity for good English and orderly presentation in your answers.

Turn Over

SECTION ONE: LOGIC

1. Read the passage below and answer the questions that follow:

Chris tried to get up but he couldn't because the pain was very sharp. If he shows any sign of pain, then he will be kicked out of the team. He knew he could not afford to lose the scholarship. Some pains are difficult to hide. That is why the coach had to notice it.

It was the championship game and he did not want to miss it. The coach told him "If he stays and plays then he will die in the field and if he fails to see the doctor then he will die in the field". Chris replied with a smile "if Jones can play with a broken leg, so can I".

Questions

- (a) (i) Bring out a Particular Affirmative Proposition from the passage above. (1 mark)
- (ii) What is the Contradictory of the Sub-Contrary of a(i) above? (2 marks)
- (iii) Bring out very clearly the Converse of the Contrary of a(i) above (2 marks)
- (iv) Given a(ii) above as False, what is the truth value of its contradictory and sub-alternation? (2 marks)
- (b) Use a suitable Hypothetical proposition found in the passage above to construct:
- (i) A Modus Tollens (3 marks)
- (ii) A Modus Ponens (3 marks)
- (c) (i) Identify a suitable proposition in the passage that can be used to build up a Constructive Dilemma (1 mark)
- (ii) Use the proposition in c(i) above to construct a Complex Constructive Dilemma (3 marks)
- (iii) Refute c(ii) above by "Escaping between the horns". (3 marks)
- (d) (i) Identify the Fallacy most clearly committed in the passage (2 marks)
- (ii) Explain how the Fallacy in d(i) above has been committed (3 marks)

2. (a) State the Logical relationship between the following sets of propositions:
- (i) All bananas are sweet fruits and No bananas are non-sweet fruits
- (ii) Some Europeans are black persons and some Europeans are not black persons
- (iii) All Logic exercises are exciting exercises and all non-exciting exercises are non-logic exercises (3 x 2 marks)
- (b) Using the terms: "Valid arguments" as the middle term, "sound arguments" as the major term and "weak arguments" as minor term
- (i) Construct an AEE-2 argument. (3 marks)
- (ii) Give the inverse of the major premise of the syllogism in a(i) above. (4 marks)
- (c) Using the symbols in parenthesis, translate the following ordinary language statements into symbolic form:
- (i) Either Beatrice is beautiful (p) and intelligent (q) or she is ugly (r) and dull (s)
- (ii) If airports are secured places (A) then luggage are safe (L) but if airports are not secured places, then theft is possible (T)
- (iii) A child is dependent (C) if and only if s/he still lives with the parents (P) and is being sponsored by the parents (S) (3 x 2 marks)

(d) Use the truth-table to determine which statement is Tautologous, Contingent or Contradictory:

(i) $(p \vee q) \supset (q \cdot p)$

(ii) $(p \cdot q) \equiv (q \cdot p)$

(2 x 3 marks)

3. (a) Given A, B, and C as true statements and X, Y and Z as false statements, determine the truth-values of the following compound statements:

(i) $[(A \vee B) \cdot Y] \equiv (X \cdot Y) \supset C$

(ii) $[\sim X \supset (A \vee B)] \supset (C \cdot Y)$

(iii) $(A \cdot B) \vee (X \supset Y)$

(3x3 marks)

(b) Using the suggested annotations, translate the following into logical notations of propositional functions:

(i) All obedient people are law abiding citizens. Cameroonians are obedient people. Therefore, they are law-abiding citizens. (Ox: x is an obedient people; Cx: x is a law-abiding citizen; Ex: x is a Cameroonian).

(ii) Some footballers are not patient persons. All nurses are patient persons. Hence, some nurses are not footballers. (Fx : x is a footballer ; Px : x is a patient person; Nx : x is a nurse).

(iii) If a man is prayerful, he is always God fearing. Thus all devoted Christians are God fearing persons. (Mx : x is a prayerful man ; Gx : x is a God fearing persons ; Dx : x is a devoted Christian
(3 x 3 marks)

(c) Annotate the following formal proofs of validity for the following arguments by stating the justification for each

(i) $\sim A$
 $A \vee C$
 $(A \supset B) \cdot (C \supset D) / \therefore B \vee D$

(ii) $X \cdot Y$
 X
 $(X \cdot Y) \vee \sim Z / \therefore \sim Z$

(iii) J
 $J \supset K / \therefore K$

(3 x 2 marks)

(d) Symbolise this argument: "Either the inspector comes or the seminar would not hold."

(1 mark)

SECTION TWO. PHILOSOPHICAL PROBLEMS

4. Is there any moral justification for the practice of abortion? (25 marks)

5. "The state is an impediment to human freedom." Examine the validity of this statement. (25 marks)

6. Is evil ordained by God? (25 marks)

GO BACK AND CHECK YOUR WORK