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SUBJECT:	**Philosophy**
DATE:	12th December 2020
TIME:	9:00 a.m. to 12:05 p.m.

This examination paper has two Sections. Answer **BOTH** Section A and Section B.
Section A carries 30 marks and Section B carries 70 marks. Follow the instructions given in each Section.

SECTION A: LOGIC AND REASONING

Answer any THREE questions from Section A. Each question carries 10 marks.

1. a) Define the term fallacy within the context of the language of logic. (2)

   b) Give the logical structure of the fallacies (i) Begging the Question and (ii) Appeal to Force. (4)

   c) With the help of an example, explain the logical fallacy 'Ad Hominem'. (4)
   (Total: 10 marks)

2. a) With the help of an example, explain briefly what is meant by a valid argument which is unsound. (2)

   b) i. Translate the following and work out whether the implication involved is valid. Give reasons for your answer.

      "If Jack is playing football then Paul is not playing football. Paul is playing football. Therefore Jack is not playing football." (4)

      ii. What is the name of the implication that has been worked above? (1)

   c) Translate symbolically. Use the same letters for each proposition.

      i. If Martha is sick then either Carol is with Martha or Jenny is with Martha.
      ii. Carol is with Martha if and only if Martha is sick and Jenny is not with Martha.
      iii. It is not the case that if Carol is with Martha then Jenny is not with Martha. (3)
      (Total: 10 marks)

Please turn the page.

3. a) Explain, with the help of an example, what an implication is and state the conditions under which it is valid or invalid. (2)

b) Using truth-tables and giving reasons for your answer, work out whether:

i. ⊔ is associative
ii. ∧ is distributive over → (4)

c) i. Translate the following:

"If it is sunny, we will go to Mdina."
"It is sunny." (2)

ii. What conclusion, in symbols and in words, can be derived from the translation above when using modus ponens? (2)

(Total: 10 marks)

4. a) With the help of an example, explain what is meant by virtual bi-temporation. (2)

b) By translating symbolically and working out the truth-tables, find out whether the two propositions below are logically equivalent. Give reasons for your answer.

i. If Matthew graduates, then he will get a car from his parents and he will go abroad with his friend.

ii. If Matthew gets a car from his parents and goes abroad with his friend, then Matthew has graduated. (5)

c) Fill-in:
In a _____ b, the truth-table is **only** True when a is _____ and b is _____ . (3)

(Total: 10 marks)

SECTION B: ETHICS AND SOCIETY

Answer QUESTION 5 and any other question from this section. Each question carries 35 marks.

5. Epicurus adopted a materialistic view of reality and human nature. Discuss how Epicurus' materialism led him towards developing his ethical views of what constitutes the good life.

6. Compare and contrast the Kantian and Utilitarian approach in formulating what constitutes a morally justifiable action.

7. According to Aristotle "the function of man is an activity of soul which follows or implies a rational principle" (*Nicomachean Ethics*). Discuss the role of reason in Aristotle's virtue ethics.

8. New technologies and media offer new challenges and preoccupations that raise new ethical issues that need to be discussed and tackled. What is the role of morality in cyberspace and what type of ethical values can be applied here?