



SUBJECT: **Philosophy**
DATE: 16th May 2019
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 instructions given in each Section.

SECTION A: LOGIC AND REASONING

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

1. a) Identify the following fallacy and explain the error in reasoning:

"I am sure that the new superhero movie coming out this summer will be an excellent movie because all of my friends are really looking forward to watching it!" (4)

b) Write down another example having the same logical fallacy as in the statement above. (2)

c) Give the logical structure of the fallacy "Appeal to Force" and explain the error in reasoning. (4)

(Total: 10 marks)

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

b) Given that:

- a stands for Jeremy will drive to the party
- b stands for Jeremy will be on time to the party
- c stands for Jeremy will stay at home

Translate the following into words:

- i. $\neg a \rightarrow (\neg b \wedge c)$
- ii. $\neg (\neg a \rightarrow c)$
- iii. $(a \wedge b) \sqcup c$
- iv. $c \leftrightarrow (\neg a \wedge \neg b)$ (4)

c) Work out whether:

- i. \vee is associative
- ii. \wedge is distributive over \rightarrow (4)

(Total: 10 marks)

Please turn the page.

3. a) Explain briefly what a tautology is in the language of logic. (2)

b) With reference to the following statement:

The teacher said that only one of Mary or Jane was at the party. She also said that if John had gone to the party, then James would have gone too.

i. Identify a subjunctive by writing the complex proposition it is forming. (2)

ii. Identify a disjunctive by writing the complex proposition it is forming. (2)

c) Translate the following propositions and, by working out their truth-tables, find out whether they are logically equivalent:

i. If Leo has enough money then he will go to China or Japan. (2)

ii. If Leo has enough money he will go to China, or if Leo has enough money he will go to Japan. (2)

(Total: 10 marks)

4. a) With the help of an example, explain what the disjunctive (\cup) is and state the conditions under which it is true. (2)

b) A and B are formulae (containing precisely P and Q as primary formulae) such that P and $P \cup Q$ gave the following truth-tables.

A	B	P	$P \cup Q$
T	T	T	T
T	F	F	F
F	T	T	T
F	F	F	F

Q has one of four truth-tables. Write down these **FOUR** truth-tables. (4)

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

i. It is not the case that Mark is at school, Mary is not at school, and Jade is not at school.

ii. Mark is at school if and only if Mary is at school and either Jade is at school or Thomas is at school.

iii. Thomas and Jade are at school only if Mark is not at school and Mary is at school.

iv. Only one of Mary or Jade is at school and if Thomas is at school then Mark is not.

(4)

(Total: 10 marks)

SECTION B: ETHICS AND SOCIETY

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

5. Discuss Kant's distinction between the hypothetical imperative and the categorical imperative. Develop your discussion by exploring his formulations of the categorical imperative.
6. The development of new biotechnologies in the field of embryology has led to controversial ethical debates on the implementation and legislation of these technologies. Discuss the ethical debate surrounding these technologies with reference to ethical theoretical positions.
7. In declaring the 'Death of God', Nietzsche is announcing the crisis of morality in the modern age. Evaluate Nietzsche's theory of ethics as a response to this crisis.
8. On a daily basis the media flags issues and cases of malpractice and misuse of the internet, such as on social media and online forums. With reference to theories of ethics how can ethical considerations inform and help individuals to act appropriately in the digital world?