



LOYOLA COLLEGE (AUTONOMOUS) CHENNAI – 600 034

M.A. DEGREE EXAMINATION – PHILOSOPHY

SECOND SEMESTER – APRIL 2025

PPL2MC01 – PHILOSOPHY OF NATURE



Date: 12-04-2025

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

SECTION A – K1 (CO1)

Answer ALL the questions

(5 x 1 = 5)

1 Answer the following

- Who proposed the Big Bang theory? (Lemaitre, Hubble, Einstein)
- Ronald Ross discovered the cause of _____. (malaria, dengue, typhoid)
- Name any two components of the atom.
- Name any one book by Teilhard de Chardin
- The speed of light is _____ km/sec. (100000, 200000, 300000)

SECTION A – K2 (CO1)

Answer ALL the questions

(5 x 1 = 5)

2 Answer the following

- The term positivist was coined by _____. (Comte, Ayer, Wittgenstein)
- Explain the term philosophy of science.
- State any one of Newton's laws of motion
- Name any two of the four idols of Francis Bacon
- Research Programs as an account of philosophy of science were proposed by _____. (Lakatos, Kuhn, Midgeley)

SECTION B – K3 (CO2)

Answer any THREE of the following in 100 words each.

(3 x 10 = 30)

- Examine the Oscillatory universe and Big Crunch.
- Describe philosophy of science from the perspective of Kuhn.
- How do the logical positivists approach philosophy of science? Explain.
- Illustrate the Special Theory of Relativity and its implications
- Explain the pre-Socratic view of Cosmology

SECTION C – K4 (CO3)

	Answer any TWO of the following in 200 words each. (2 x 12.5 = 25)
8	Critically analyse and contrast Aristotelian Cosmology with Copernican Cosmology.
9	Explain the geometry of the universe using density parameter
10	Describe the relationship between Science and Values.
11	Bring out the contributions of Copernicus, Kepler and Galileo in a heliocentric universe.
SECTION D – K5 (CO4)	
	Answer any ONE of the following in 500 words (1 x 15 = 15)
12	Examine the development of atomic theory in the 19 th and 20 th century
13	Evaluate the key concepts of Darwin's theory of evolution
SECTION E – K6 (CO5)	
	Answer any ONE of the following in 1000 words (1 x 20 = 20)
14	Write an essay on climate change using the following four points – causes, effects, possible solutions and ethical issues.
15	Explain the end of the universe using at least 3 theories.

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