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MPYE-009

M. A. PHILOSOPHY (MAPY)

Term-End Examination

June, 2021

**MPYE-009 : PHILOSOPHY OF SCIENCE AND
COSMOLOGY**

Time : 3 Hours

Maximum Marks : 100

Note : (i) *Answer all the five questions.*

(ii) *All questions carry equal marks.*

(iii) *Answers to Question No. 1 and 2 should
be in about 500 words each.*

1. Explain the notion of the mechanical universe
in detail. 20

Or

Describe critically the contribution of Larry
Lauden to Philosophy of Science.

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2. Write an essay on the scientific theories on the
origin and end of the universe. 20

Or

Critically show the implications of Einstein's
theory of relativity.

3. Answer any **two** of the following questions in
about **250** words each : 10 each

(a) Explain the place of inflation in Big-Bang
cosmology.

(b) What is multiverse theory ? Give its
philosophical significance.

(c) What do you understand by scientific
explanation ?

(d) Discuss the significance of falsification in
scientific theory.

4. Answer any **four** of the following questions in
about **150** words each : 5 each

(a) What is Historical Realism ?

(b) Describe the methodological problems in
Social Science.

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- (c) Briefly explain the triumph of Copenhagen interpretation of quantum mechanics.
 - (d) What is a world model ?
 - (e) How do you relate scientific and religious outlooks on the world ?
 - (f) What is Brahmanda in Hindu mythology ?
5. Write short notes on any *five* of the following in about **100** words : 4 each
- (a) Hubble's law
 - (b) Oscillating universe
 - (c) Four-dimensional space time
 - (d) Quantum tunnelling
 - (e) Theory-ladenness of observation
 - (f) Naturalism
 - (g) Feminist account of science
 - (h) Arab contribution to cosmology
 - (i) Dark energy