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MPYE-009

M. A. PHILOSOPHY (MAPY)

Term-End Examination

June, 2024

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

Time : 3 Hours

Maximum Marks : 100

Note : Answer all the **five** questions. All questions carry equal marks. Answer to question nos. **1** and **2** should be in about **500** words each.

1. Write a critical essay on logical positivism. 20

Or

Do you agree that shaper enrich the notion of observation ? What are its implications in understanding modern sophisticated science ? Discuss. 20

2. What is historical significance of Philosophy of Science ? Explain in detail the philosophical issues in science. 20

P. T. O.

Or

What do you mean by falsification ? Discuss its significance in scientific theory. 20

3. Answer any **two** of the following in about **250** words each : $2 \times 10 = 20$
- (a) Explain the big-bang theory and the history of the Universe.
 - (b) Discuss the relation between philosophy of science and epistemology.
 - (c) Bring out the some significant differences between classical and quantum mechanics.
 - (d) Write a short essay on the place and role of values in science.
4. Answer any **four** of the following in about **250** words each : $4 \times 5 = 20$
- (a) Explain space-time curve.
 - (b) What is unobservables in science ?
 - (c) Give a feminist account of science.
 - (d) Describe historical realism.
 - (e) What do you understand by cause-effect relationship ?
 - (f) Give an account of the Pauranic view of the Universe.

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5. Write short notes on any *five* of the following in about **100** words each : 5×4=20

- (a) False vacuum
- (b) Relativity of simultaneity
- (c) Methodological problems in social science
- (d) Decoherena
- (e) Quantum Tunnelling
- (f) Perceptual and conceptual space and time
- (g) Idea of mechanical universe
- (h) Theory of relativity