

**M. A. PHILOSOPHY (MAPY)**

**Term-End Examination**

**June, 2020**

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

*Time : 3 Hours*

*Maximum Marks : 100*

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

*(ii) All questions carry equal marks.*

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

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1. Elaborately discuss Indian Cosmology and its  
relevance. 20

*Or*

Discuss critically the significance of historical realism taking into account Dudley Shapere and Laddy Landen.

2. Discuss the various scientific theories on the origin and end of the universe, passing special attention to Big Bang Theory. 20

*Or*

Define philosophy of science and explain how philosophy of science is related to Metaphysics.

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

- (a) Discuss the journey from pre-science to science. 10

- (b) Give an account of the dynamic relationship between science and philosophy. 10
- (c) How does Imre Lakatos enrich Popper and Kuhn ? Discuss. 10
- (d) What is multiverse ? Give its philosophical significance. 10
4. Answer any *four* of the following in about **150** words each :
- (a) What is Quantum Tunneling ? 5
- (b) Describe relativity of time. 5
- (c) Describe science as a 'problem solving enterprise'. 5
- (d) What is cosmological constant ? 5
- (e) Describe the religious perspectives of truth. 5
- (f) What do you understand by dark matter ? 5

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

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|---------------------------|---|
| (a) Hubble's Law          | 4 |
| (b) Naturalism            | 4 |
| (c) Research Tradition    | 4 |
| (d) De-coherence          | 4 |
| (e) Heat Death            | 4 |
| (f) Big Bounce            | 4 |
| (g) Dark energy           | 4 |
| (h) Uncertainty principle | 4 |