

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

**Term-End Examination,**

**December 2019**

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

*Time : 3 Hours]*

*[Maximum Marks : 100*

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

*(ii) All questions carry equal marks.*

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

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1. Critically examine logical positivism. How do you respond to their effort to eliminate metaphysics? 20

**OR**

What are scientific explanations? Make reference to deductive probabilistic and teleological explanations.

20

2. What are the main features of quantum mechanics? Why do we speak of the "Weirdness of quantum mechanics"?

20

**OR**

What is the significance of science and religion dialogue? Discuss.

20

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

a) Give an overview of the expanding universe. 10

(2)

- b) Give your critical view on the feminist accounts of science. 10
- c) How does feyerabend liberate humanity from science? 10
- d) What is uncertainty principle? Elaborate its significance. 10
4. Answer **any four** of the following in about **150** words each.
- a) What is the Big RIP? 5
- b) What is paradigm according to Thomas Kuhn? 5
- c) What do you understand by teleological explanation? 5
- d) Describe Falsifiability. 5
- e) What are some of Hubble's important discoveries? 5
- f) Describe the significance of Brahmanda (cosmic egg). 5
5. Write short notes on **any five** of the following in about **100** words each.
- a) Multiverse 4
- b) Dark matter 4
- c) Relativity of time 4
- d) Logic of discovery 4
- e) Steady state theory 4
- f) Big crunch 4
- g) Research tradition 4
- h) Big bounce 4

