

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

**Term-End Examination**

**February, 2021**

**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) Answers to questions no. **1** and **2** should be in about 500 words each.

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1. Write an essay on the beginnings of scientific cosmology. 20

**OR**

What is Logical Positivism ? How does it interpret science ? Give your criticism of it. 20

2. Explain the philosophical implications of Uncertainty Principle. 20

**OR**

Write your reflections on “The Big Bang and Beyond”. 20

3. Answer any *two* of the following in about 250 words each :
- (a) Differentiate between scientific and religious perspective on truth. 10
  - (b) Write a short essay on the weirdness of quantum mechanics. 10
  - (c) Mention some significant contributions of Paul Feyerabend. 10
  - (d) Who is Galileo Galilee ? What is his contribution to science ? 10
4. Answer any *four* of the following in about 150 words each :
- (a) What is the contribution of Copernicus to science ? 5
  - (b) What is scientific methodology ? 5
  - (c) What is historicists' challenge to logical positivism ? 5
  - (d) What does the theory of relativity say about mass and energy ? 5
  - (e) What is the Big Freeze ? 5
  - (f) Briefly describe the infinity of space and time. 5

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

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|----------------------------|---|
| (a) Schrodinger's Equation | 4 |
| (b) Wave Function Collapse | 4 |
| (c) Verification Theory    | 4 |
| (d) Incommensurability     | 4 |
| (e) Dark Matter            | 4 |
| (f) Nucleosynthesis        | 4 |
| (g) Inductive Reasoning    | 4 |
| (h) Hubble's Law           | 4 |
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