

M.A. PHILOSOPHY (MAPY)

Term-End Examination

June, 2017

00633

**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) *Answer to question no. 1 and 2 should be in about
500 words each.*
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1. Discuss various theories about the end of the universe. 20

OR

Define philosophy of science and explain how philosophy of science and metaphysics are related. 20

2. Do you agree ; philosophy of science is a second order discipline ? Explain the broad areas of inquiry for philosophy of science. 20

OR

What is a Scientific Research programme in Lakatos' scheme ? What is its significance in understanding science ? Explain. 20

3. Answer **any two** of the following in about **250 words** each.
- (a) Make a critical description of Logical Positivism. 10
 - (b) Define uncertainty principle. Explain the philosophical implications of uncertainty principle. 10
 - (c) Explain various methodological problems in social sciences. 10
 - (d) What is the structure and validation of scientific theory ? Elaborate. 10
4. Answer **any four** of the following in about **150 words** each.
- (a) What is Space-Time Curve ? 5
 - (b) Explain the concept of Island Universe. 5
 - (c) What do you understand by 'Cosmic egg' (Brahmanada) ? 5
 - (d) Describe the theory of Big-Bang. 5
 - (e) Explain theory-ladenness of observation. 5
 - (f) What is instrumentalism ? 5
5. Write short notes on **any five** of the following in about **100 words** each.
- (a) The Principle of Causality 4
 - (b) Arab Contribution to Cosmology 4
 - (c) Scientific realism 4
 - (d) Puranic view of the Cosmos 4
 - (e) Reason and faith 4
 - (f) Singularity 4
 - (g) Theory of relativity 4
 - (h) Falsification 4