

M.A. PHILOSOPHY (MAPY)

Term-End Examination

December, 2014

00760

**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. Explain the relation between Philosophy and Science. Discuss Philosophy of Science as a second order discipline and its historical significance. 20

OR

Explain and critically evaluate the criterion of meaning according to the Logical positivists and their position on Metaphysics. 20

2. Explain the nature and practical significance of Quantum Mechanics. How does it differ from Classical Physics ? 20

OR

Trace the beginning of scientific cosmology with special reference to Galileo, Newton and Descartes. 20

3. Answer any **two** of the following in about 250 words each :
- (a) Briefly explain the general theory of relativity. 10
 - (b) Explain the structure of the 'Scientific Theory'. 10
 - (c) What does steady state theory mean ? Explain. 10
 - (d) Make clear the contrast between scientific and religious outlooks. 10
4. Answer any **four** of the following in about 150 words each :
- (a) Explain the Puranic view of the Universe. 5
 - (b) Give an account of Aristotle's model of Universe. 5
 - (c) Describe Rudolf Carnap's theory of meaning and verification. 5
 - (d) Write a short note on the Uncertainty Principle. 5
 - (e) Briefly explain the relation between faith and reason. 5
 - (f) Describe Anaxagorean and Atomist's theories of Universe. 5

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

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| (a) Scientific Realism | 4 |
| (b) Ptolemy's Cosmology | 4 |
| (c) Big Bang Theory | 4 |
| (d) Kuhn's Paradigm | 4 |
| (e) Space-Time Continuum | 4 |
| (f) Cause-Effect Relationship | 4 |
| (g) Zoroastrian Perspective of Truth | 4 |
| (h) Pre-Science | 4 |
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