

00340

M.A. PHILOSOPHY (MAPY)

Term-End Examination

June, 2013

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

Time : 3 hours

Maximum Marks : 100

-
- Note :** (i) *Answer all the five questions.*
(ii) *All questions carry equal marks.*
(iii) *Question No. 1 and 2 should be in about 500 words each.*
-
-

1. Explain the mechanical universe and give its philosophical significance. 20

OR

Critically examine the uncertainty principle and evaluate its impact on the philosophy of science. 20

2. Discuss the nature and kinds of scientific explanation. 20

OR

What is the relationship between philosophy of science and metaphysics ? Explain. 20

3. Answer *any two* of the following in about 250 words each :
- (a) Is the universe finite or infinite ? Explain. 10
 - (b) " Science without Religion is lame, Religion without science is blind " - Comment. 10
 - (c) Discuss the contribution of Thomas Kuhn to the philosophy of science. 10
 - (d) Do you agree that philosophy of science is a second order discipline ? Substantiate your answer. 10
4. Answer *any four* of the following in about 150 words each :
- (a) What is Kepler's main contribution to science ? 5
 - (b) What do you understand by teleological ? Explanation. 5
 - (c) Explain the relativity of time. 5
 - (d) Explain the theory of Big Crunch. 5
 - (e) Observation cannot be seperated from interpretation . Discuss. 5
 - (f) Evaluate the role of Feyeraabend as a great humanist. 5
5. Write short notes on *any five* of the following in about 100 words each :
- (a) Imre Lakatos 4
 - (b) De - coherence 4

| | | |
|-----|---------------------------|---|
| (c) | Unobservables in science | 4 |
| (d) | Probabilistic explanation | 4 |
| (e) | Singularities | 4 |
| (f) | Heat death | 4 |
| (g) | Hubble constant | 4 |
| (h) | Falsification | 4 |
