

00758

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

**Term-End Examination**

**December, 2017**

**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) *Answers to question no. 1 and 2 should be in about  
500 words each.*
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1. 'The critique of science is the philosophy of science'. Comment. 20

**OR**

- Compare and contrast 'Early Kuhn' and later 'Kuhn'. 20

2. Elucidate Minkowski's contribution to the perception of the universe. 20

**OR**

- Analyse the philosophical dimension of 'expanding universe'. 20

3. Answer any two of the following in about 250 words each :
- (a) In what sense can we say that 'subversive' character of science is also the 'evolutionary' character of science ? 10
  - (b) Show how the criterion of meaning carried out the refutation of idealism. 10
  - (c) What are the major points of departure of quantum mechanics from classical mechanics ? Describe. 10
  - (d) Trace similarities between theories of Brahmanda and Big Bang. 10
4. Answer any four of the following in about 150 words each :
- (a) Why do we say that philosophy of science is a second order discipline ? 5
  - (b) Is science value - neutral ? 5
  - (c) Why do we need multiple research programmes ? 5
  - (d) Does Laudan's 'research tradition' make any progress from paradigm shift and research programme positions ? 5
  - (e) Bring out the salient nature of scientific theory ? 5
  - (f) Why is false vacuum called so ? 5
5. Write short notes on any five of the following in about 100 words each
- (a) Anti-realism in science 4
  - (b) The Arab Cosmology 4
  - (c) Epistemological anarchism 4
  - (d) Probabilistic explanation 4
  - (e) Simultaneity 4
  - (f) Complementarity 4
  - (g) Space - Time matrix 4
  - (h) Oscillating universe 4
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