

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

**Term-End Examination**

**June, 2018**

**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. Is feminist critique of science tenable ? Justify. **20**  
**OR**  
Examine Feyerabend's arguments against the rationality of science. **20**
2. Contrast Steady State Theory with Big Bang Theory. **20**  
**OR**  
Examine inflationary theory. **20**
3. Answer any two of the following in about 250 words each :
- (a) Elucidate the Bayesian theory of probability. **10**  
(b) Describe Hanson's comments on the context of discovery and the context of justification. **10**  
(c) Trace the evolution of uncertainty principle. **10**  
(d) Examine Bergson's notion of *duree*. **10**

4. Answer any four of the following in about 150 words each :
- (a) Show that falsification and induction are contraries. 5
  - (b) Describe the Puranic view of the universe. 5
  - (c) What is the upshot of Carnap's 'Testability and Meaning' ? 5
  - (d) How is 'action at a distance' is understood in modern physics ? 5
  - (e) Where does Schrodinger's cat stand in quantum mechanics ? 5
  - (f) Examine briefly the kantian theory of space and time. 5
5. Write short notes on any five of the following in about 100 words each :
- (a) Science criticism 4
  - (b) Dark matter 4
  - (c) Incommensurability 4
  - (d) Theory-laden observation 4
  - (e) Quantum tunnelling 4
  - (f) Heat Death 4
  - (g) Stoic universe 4
  - (h) Bubble universe 4
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