

M.A. PHILOSOPHY (MAPY)

Term-End Examination

December, 2018

**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) *Answers to question no. 1 and 2 should be in about
500 words each.*

1. Explain the significance of Big Bang theory to philosophical cosmology. 20

OR

Elaborate on the weirdness of Quantum Mechanics. How is it significant for cosmology ? Explain. 20

2. Make a critical analysis of the contributions of logical positivists. 20

OR

Critically examine Indian cosmology. Give your philosophical appraisal of it in comparison to scientific cosmology. 20

3. Answer any two of the following in about 250 words each :

(a) Explain the contribution of Thomas Kuhn to philosophy of science. 10

- (b) Elaborate on the Arab contribution to cosmology. 10
- (c) Give your criticism of historical realism. 10
- (d) Why do we need dialogue between science and religion ? Explain. 10
4. Answer any four of the following in about 150 words each :
- (a) What are the scientific perspectives on truth ? 5
- (b) Are space and time infinite ? 5
- (c) What is Copenhagen interpretation ? 5
- (d) Elaborate on the feminist accounts of science. 5
- (e) What is dark matter ? 5
- (f) What are some of the contributions of Kepler to cosmology ? 5
5. Write short notes on any five of the following in about 100 words each :
- (a) Ether 4
- (b) Incommensurability 4
- (c) Scientific realism 4
- (d) Principle of causality 4
- (e) Quantum 4
- (f) Truth 4
- (g) Wave function 4
- (h) General theory of relativity 4
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