

M.A. PHILOSOPHY (MAPY)

Term-End Examination

June, 2019

02103

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

Time : 3 hours

Maximum Marks : 100

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- Note :** (i) *Answer all 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. Write a critical essay on the beginning of scientific cosmology. 20

OR

Explain uncertainty principle. How is it philosophically significant? Discuss.

2. Elaborate on the theory-ladenness of observation. 20

OR

Critically discuss Indian Cosmology. Give your philosophical appraisal of it in comparison to scientific cosmology.

3. Answer any two of the following in about 250 words each : 2x10=20

- (a) Write a short essay on scientific explanations. 10
(b) Explain logical positivism in detail. 10

- (c) Discuss the significance of quantum mechanics. 10
- (d) Explain the Big Bang model in detail. 10
4. Answer any four of the following in about 150 words each : **4x5=20**
- (a) What happened before the Big Bang ? 5
- (b) Is the universe today expanding ? 5
- (c) Describe the general theory of relativity. 5
- (d) Briefly discuss the feminist accounts of science. 5
- (e) What do you understand by dark energy ? 5
- (f) Mention some of the contributions of Feyerabend to philosophy of science. 5
5. Write short notes on any five of the following in about 100 words each : **5x4=20**
- (a) Hiranyagarbha 4
- (b) Epistemological anarchism 4
- (c) Research tradition 4
- (d) Principle of causality 4
- (e) Inductive reasoning 4
- (f) Momentum 4
- (g) Wave function 4
- (h) Bubble Universe 4
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