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MPYE–009

M. A. (PHILOSOPHY) (MAPY)

Term-End Examination

December, 2024

**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 nos. 1 and 2 should be in about **500** words each.

1. Explain the relation between epistemology and philosophy of science. What is the need and relevance of philosophy of science for other intellectual inquiries ? 20

Or

Write a note on Scientific Research Programme in Lakatos' scheme. What is its significance in understanding science ? 20

2. Is philosophy of science a second order discipline ? Explain the broad areas of inquiry for philosophy of science. 20

Or

Do you think there is some weirdness in quantum mechanics ? Write a note on quantum mechanics and its practical value. 20

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

- (a) Explain various methodological problems in Social Sciences. 10
- (b) Highlight the structure and validation of scientific theory. 10
- (c) Bring out the differences between the general scientific and religious outlooks. 10
- (d) What is uncertainty principle ? Explain its philosophical implications. 10

4. Answer any **four** of the following questions in about **150** words each :

- (a) Describe basic claims of scientific realism. 5
- (b) What do you understand by cause and effect relationship ? 5

- (c) What is the contribution of Kepler to Cosmology ? 5
 - (d) Describe the relationship between Science and Philosophy. 5
 - (e) Write a note on Arab contribution to Cosmology. 5
 - (f) Distinguish between perceptual and conceptual space and time. 5
5. Write short notes on any *five* of the following in about **100** words each :
- (a) Verification theory 4
 - (b) Unobservable in science 4
 - (c) Space-time curve 4
 - (d) Steady state theory 4
 - (e) Logical positivism 4
 - (f) Nasadiya Sukta 4
 - (g) Natural philosophy 4
 - (h) Problems of inductive reasoning 4

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