

01434

M.A. PHILOSOPHY

Term-End Examination

June, 2012

**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. Define philosophy of science. Explain the relation between epistemology and philosophy of science. 20

OR

- What is Einstein's theory of relativity ? Explain relativity of motion, length, time and simultaneity. 20

2. Is the universe eternal ? Write detailed notes on various theories about the possible and of the universe. 20

OR

- Discuss uncertainty principles as one taking us beyond strong objectivity. What are the philosophical implications of uncertainty principle ? Explain. 20

3. Answer *any two* of the following in about **250 words** each :
- (a) Describe philosophy of science as a second order activity. **10**
 - (b) Explain various important themes of scientific cosmology. **10**
 - (c) Discuss some of the areas where metaphysics and scientific inquiries come together. **10**
 - (d) Write a detailed note on the contribution of Galileo Galilei to cosmology. **10**
4. Answer *any four* of the following in about **150 words** each :
- (a) What is Scientific Research Program (SRP) ? **5**
 - (b) Describe briefly the Feminist accounts of science. **5**
 - (c) Explain scientific realism. **5**
 - (d) What do you understand by science criticism ? **5**
 - (e) Briefly discuss the elimination of metaphysics. **5**
 - (f) What is quantum tunneling ? **5**

5. Write short notes on *any five* of the following in about **100** words each :

- (a) Falsificationalism 4
 - (b) Natural Philosophy 4
 - (c) Reason and Faith 4
 - (d) The Inflationary theory 4
 - (e) Island universe 4
 - (f) Ether 4
 - (g) Teleological explanation 4
 - (h) Big freeze 4
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