M.A. PHILOSOPHY (MAPY)

Term-End Examination December, 2021

MPYE-009: PHILOSOPHY OF SCIENCE AND COSMOLOGY

Tim	e: 3 hours Maximum Marks:	Maximum Marks : 100	
Not	e:		
(i)	Answer all five questions.		
(ii)	All questions carry equal marks.		
(iii)	Answers to questions no. 1 and 2 should be in ab 500 words each.	out	
1.	What is Philosophy of Science? How do you relate philosophy of science to other disciplines?	20	
	\mathbf{OR}		
	Explain Uncertainty Principle. Give a detailed account of its implication for cosmology.	20	
2.	Give a general understanding of quantum mechanics. How does it affect our understanding of the Universe?	20	
	\mathbf{OR}		
	Give a general understanding of the relationship between science and religion.	20	

3.		wer any <i>two</i> of the following in about words each:	
	(a)	What is Kuhn's contribution to Philosophy of Science? Explain.	10
	(b)	Elucidate the Bayesian theory of probability.	10
	(c)	Briefly describe the Big Bang model.	10
	(d)	Write a detailed note on the Arab's contribution to cosmology and philosophy of science.	10
4.		wer any <i>four</i> of the following in about words each:	
	(a)	What is the Puranic view of cosmos ?	5
	(b)	Explain the expanding universe.	5
	(c)	What is the significance of verification theory?	5
	(d)	Is space and time infinite according to contemporary scientific theory?	5

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

(a)	Baryogenesis	5
(b)	Inflationary Theory	5
(c)	Incomensurability	5
(d)	Steady State Theory	5
(e)	Falsificationalism	5
(f)	Teleological Explanation	5
(g)	Doppler Shift	5
(h)	Larry Laudan	5