



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.A. DEGREE EXAMINATION – PHILOSOPHY

THIRD SEMESTER – NOVEMBER 2018

17PPL3MC03 – PHILOSOPHY OF SCIENCE

Date: 31-10-2018

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

Part-A

Answer the following

(6 x 6=36 Marks)

1. How did John Herschel modify Bacon's account of the method of science?
2. Discuss Popper's view on the demarcation between science and non-science.
3. State the difference between classical physics and quantum physics.
4. Define Heisenberg's Principle of Uncertainty.
5. Enumerate the Relativity Theories of Einstein.
6. Describe and evaluate the 'heat-death' theory of the universe.

Part B

Answer the following

(4 x 16 = 64 Marks)

7. A. Elucidate the types of explanations.

OR

B. Explain the problem of Induction and critically assess various attempts in resolving it.

8. A. Explain Lemaitre's theory of the origin of the universe and bring out its strengths and weaknesses.

OR

B. Explain the Steady State Theory and critically examine it.

9. A. Analyze the notion of 'value-neutrality' for science in the light of social and moral responsibility of scientists and the role of religion in scientific activities.

OR

B. How does Thomas Khun refute the claims of logical positivists' scientific activities?

10. A. What are the suggested scenarios of the ultimate fate of the universe?

OR

B. How does contemporary Cosmology contribute to the non-temporal version of the cosmological argument for the existence of God?

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