



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.A. DEGREE EXAMINATION – PHILOSOPHY

THIRD SEMESTER – NOVEMBER 2016

PL 3809 – PHILOSOPHY OF SCIENCE

Date : 27/10/2016
Time : 09:30-12:30

Dept. No.

Max. : 100 Marks

Part-A

Answer the following (6 x 6=36 Marks)

1. How is Philosophy related to Science and Technology?
2. Enumerate the Relativity Theories of Einstein.
3. Define Heisenberg's Principle of Uncertainty.
4. What is 'paradigm shift,' in the history of science?
5. Define the terms 'Cosmogony,' 'Cosmology,' and 'Cosmography.'
6. What is Francis Bacon's view on scientific method?

PART- B

Answer the following (4 x 16 = 64 Marks)

7. A. Explain the problem of Induction and critically assess various attempts of resolving it.

OR

B. Enumerate the scientific procedure of observation, description, explication, reduction.

8. A. Critically assess modern understanding of Space and Time in the light of Quantum Mechanics and Theories of Relativity.

OR

B. Estimate the issues in scientific understanding of the world from the perspective of Reductionism and Hylemorphism.

9. A. Explain Big Bang Theory in the light of recent discoveries and understanding of the universe. How do you evaluate the theories of origin and end of the universe?

OR

B. What are the characteristics of the universe as evident from science and philosophy?

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

OR

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