



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.A. DEGREE EXAMINATION – PHILOSOPHY

THIRD SEMESTER – NOVEMBER 2022

PPL 3503 – PHILOSOPHY OF SCIENCE

Date: 07-12-2022

Dept. No.

Max. : 100 Marks

Time: 09:30 AM - 12:30 PM

PART-A

Answer the following:

(6X6=36 Marks)

1. What is Deductive - Nomological explanation? Explain its advantage with examples.
2. What, according to Bacon, are the four idols that the scientist must avoid to acquire true knowledge?
3. Highlight the Lambda-CDM model of the universe.
4. Explain Lemaitre's theory of the origin of the universe and bring out its strength and weaknesses
5. Describe the 'heat-death' theory of the universe.
6. What is objectivity in science? Illustrate how Thomas Kuhn refutes objectivity in science.

PART- B

Answer the following questions

(4X16=64 Marks)

7A. What are the chief characteristics of empirical sciences? Describe.

OR

7B. How is science distinguished from non-science? Is the demarcation criterion proposed by Popper sound?

8A. Describe the Special Theory of Relativity and highlight and its philosophical implications.

OR

8B. What are the various types of explanations? Discuss each one with examples.

9A. How is the ultimate fate of the universe related to matter density and the shape of the universe. Elaborate.

OR

9B. Explain the General theory of Relativity and its implications.

10A. What are the philosophical implications of Kuhn's position on history of science?

OR

10B. Explain the big bang model of the universe and discuss the evidences for it.

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