

Assignment – 12

BPY 012: Philosophy of Science and Cosmology

Note:

- i) Answer all five questions
- ii) All questions carry equal marks
- iii) Answer to question no. 1 and 2 should be in about **400 words** each.

1. Make a comparative analysis of Scientific Cosmology and Philosophical Cosmology. 20
Or
Discuss some of the important consequences of the theory of relativity. 20
2. Make a critical analysis of the philosophical approach of logical positivism. 20
Or
What are the different methods used in science? Explain Newton's concept of scientific method? 20
3. Answer **any two** of the following questions in about **200 words** each:
 - a. Explain Galileo's theory of universe. 10
 - b. What is Steady State theory? Explain. 10
 - c. Comment on the contribution of Roger Bacon to experimental science. 10
 - d. Why is a discussion of the theory of relativity important in philosophy of science? 10
4. Answer **any four** of the following in about **150 words** each:
 - a) What is scientific knowledge? 5
 - b) Explain Kepler's three laws of planetary motion. 5
 - c) What do you know about the Pythagorean brotherhood? 5
 - d) Briefly explain the concept of innate force. 5
 - e) Explain methodological relativism. 5
 - f) What do you understand by auxiliary hypothesis? 5
5. Write short notes on **any five** of the following in about **100 words** each:
 - a) Theory of relativity 4
 - b) Quantum physics 4
 - c) Death of absolutism 4
 - d) Metascience 4
 - e) Falsifiability 4
 - f) Theory of chaos 4
 - g) Multiverse and universe 4
 - h) Frame of Reference 4