

**FOURTH SEMESTER B.A./B.Sc. DEGREE EXAMINATION  
MAY 2011**

(CCSS)

Common Course

**A 06 HISTORY AND PHILOSOPHY OF SCIENCE**

Time : Three Hours

Maximum : 30 Weightage

**I. Answer the *three* bunches of questions as directed :**

- A. 1. The Mesopotamians computed the length of the lunar month correct to the \_\_\_\_ decimal place.
- (a) Fifth. (b) Fourth.
- (c) Sixth. (d) Second.
2. The greatest scientific achievement of the Babylonians was their
- (a) Ship building. (b) Numerical system,
- (c) Wheeled vehicle. (d) Pottery.
3. Ionian School of Philosophy was founded by :
- (a) Anaximander. (b) Anaximenes.
- (c) Thales of Miletus. (d) Government and religion.
4. Which Veda mentions several kinds of technicians like blacksmiths, smelters and builders?
- (a) Rig Veda. (b) Sama Veda.
- (c) Yajur Veda. (d) Atharva Veda.
- B. 5. Which is a chief tradition of Ayurveda?
- (a) Atharva Veda. (b) Atreya.
- (c) Sama Veda. (d) Yajur Veda.
6. Which of the following scientists was 'wasting time by studying mathematics'?
- (a) Newton. (b) Boyle.
- (c) Edison. (d) Madhava.
7. Who was the first Nobel laureate from India?
- (a) Ronald Ross. (b) Louis Pasteur.
- (c) Edward Jenner. (d) Robert Hooke.

Turn over

8. Who is considered as the father of Microbiology?

- |                     |                              |
|---------------------|------------------------------|
| (a) Robert Hooke.   | (b) Jenner.                  |
| (c) William Harvey. | (d) Antonie van Leeuwenhock. |

9. Hume's Problem is related to :

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|-----------------|----------------|
| (a) Deduction.  | (b) Induction. |
| (c) Derivation. | (d) Inference. |

10. Who is associated with NOA?

- |                  |                    |
|------------------|--------------------|
| (a) Arthur Fine. | (b) Heisengerg.    |
| (c) E.O. Wilson. | (d) None of these. |

11. Scientism is :

- |                          |                        |
|--------------------------|------------------------|
| (a) Science worship.     | (b) Hatred of Science. |
| (b) Strength of Science. | (d) All these.         |

12. The idea that 'Science is a dangerous activity' is held by :

- |                      |                  |
|----------------------|------------------|
| (a) Thomas Kuhn.     | (b) Karl Popper. |
| (c) Paul Feyerabend. | (d) Kepler.      |

(3 x 1 = 3 weightage)

II. Answer in a sentence *or* two all the *nine* questions :

13. What is History of Science?
14. What is determinism?
15. What do you mean by the Philosophy of Science?
16. What is atomism?
17. What is the role of the Arabs in the History of Science?
- 18.. What was done to Hippasos of Metaportion?
19. What are the components of the scientific method?
20. who mentions Nehru in the text and in what connection?
21. What is the significance of the Michelson-Morley experiment?

(9 x 1 = 9 weightage)

III. Answer any *five* questions out of seven in *a paragraph* each

22. The Bronze Age.
23. Zeno.
24. Classical texts of Medicine from India.

25. Pythagoras,

26, Metallurgy.

27. People's Science.

Realism,

(5 x :10 weightage)

IV. Answer any two out of the three given in about 200 words

29. Write an essay on the significance of any two River Valley Civilizations.

30, Conflict of Science and religion in the 19th Century,

31, The fundamental questions raised by the Philosophy of Science,

x weightage)