

C 41395

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Name.....

Reg. No.....

FOURTH SEMESTER U.G. DEGREE EXAMINATION, APRIL/MAY 2013

(CCSS)

Common Course

A 06—HISTORY AND PHILOSOPHY OF SCIENCE

Time : Three Hours

Maximum : 30 Weightage

I. (A) Answer the following bunches of questions :—

1 The circumference of the Earth in the calculation of Eratosthenes is :

- (a) 39638. (b) 40,030.
(c) 42,008. (d) 40,080.

2 Boiling was a problem for the want of fire-resistant vessels in the ———.

- (a) New Stone age. (b) Old Stone Age.
(c) The Bronze age. (d) Modern Age.

3 The Chinese records of comets go back to :

- (a) 4c AD. (b) C BC.
(c) 8c AD. (d) 16 C BC.

4 In which country is the Yellow river situated ?

- (a) China. (b) Egypt.
(c) Greece. (d) Iran.

(B) Fill in the blanks :

5 ——— said that things are numbers.

- (a) Aristarchus. (b) Egypt.
(c) Nile. (d) None of these.

6 ——— is considered the father of Greek atomism.

- (a) Eudoxus. (b) Democritus.
(c) Hippocrates. (d) Hipparchus.

7 Thomas Aquinas is associated with ———.

- (a) Scholasticism. (b) Agnosticism.
(c) Creationism. (d) Dialecticism.

Turn over

8 The first fundamental particle discovered was _____.

- (a) Proton. (b) Electron.
(c) Neutron. (d) Positron.

(C) Answer in a word :

9 Who taught that everything came from water ?

- (a) Thales. (b) Anaximander.
(c) Aristotle. (d) Plato.

10 What is the knowledge of long life called ?

- (a) Ayurveda. (b) Atharvaveda.
(c) Samaveda. (d) Nirveda.

11 Who is not the contemporary of Newton ?

- (a) Robert Hooke. (b) Leibniz.
(c) Huygens. (d) Galileo.

12 Who among the following is associated with the telescope ?

- (a) Newton. (b) Galileo.
(c) Descartes. (d) Bacon.

(12 × ¼ = 3 weightage)

II. Answer each of the following questions in two or three sentences :

13 Who was Thales ?

14 What is Julian calendar ?

15 Why is Bruno considered as a martyr to science ?

16 What is scientific temper ?

17 What is meant by sexism in science ?

18 Explain the term pseudoscience.

19 What is Hubble's law ?

20 What was Bill Zimmerman's argument about science ?

21 Explain the term Nanotechnology.

(9 × 1 = 9 weightage)

III. Answer five of the following questions in a paragraph of 100 words :—

22 Hume's problem.

23 Scientism.

24 Realism.

- 25 People's science.
- 26 Genome project.
- 27 Industrial revolution.
- 28 Copernicus.

(5 × 2 = 10 weightage)

IV. Answer any *two* of the following questions in 300 words :—

- 29 Paleolithic age.
- 30 Arabs and Science.
- 31 Science and ancient India.

(2 × 4 = 8 weightage)