

**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) Males. (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 no the contemporary of New con ?

- (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 x 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 x 1 = 9 weightage)

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

22 Hume's problem.

23 Scientism.

24 Realism.

**20** INNS science.

**6** Genome project.

**7** Industrial revolution.

**2** Copernicus.

(5x = 10 weightage)

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

**9** Paleolithic age.

**30** Arabs and **ken**

**11** Science and **mist hit**

(2 x 4 = 8 weightage)