

## THIRD SEMESTER B.A./B.Sc. DEGREE EXAMINATION, NOVEMBER 2012

(CCSS)

Common Course—English

## A06 HISTORY AND PHILOSOPHY OF SCIENCE

Time : Three Hours

Maximum : 30 Weightage

## I. Answer the three bunches of questions as directed

A. 1 Eratosthenes estimated the circumference of earth as \_\_\_\_\_ kilometers.

(a) 40,008.

(b) 39,638.

(c). 40,638.

(d) 40,000.

2 The Old Stone Age humans were

(a) Hunters.

(b) Gatherers.

(c) Hunter-gatherers.

(d) Planters.

3 Which age came later ?

(a) Palaeolithic.

(b) Bronze age.

(c) Neolithic age.

(d) None of these.

4 The well planned village was the economic unit of \_\_\_\_\_ age.

(a) Palaeolithic.

(b) Neolithic.

(c) Middle.

(d) None of these.

5 Hand-formed \_\_\_\_\_ had been made mainly by women at the beginning of history.

(a) Tools.

(b) Clothes.

(c) Pottery.

(d) All these.

6 Which is the oldest civilization ?

(a) Roman.

(b) Mesopotamian.

(c) Arabian.

(d) Greek.

7 Which river is in China ?

(a) The Nile.

(b) The Ganges.

(c) The Yellow River.

(d) None of these.

8 Roman contribution to science is \_\_\_\_\_ than Greek contribution.

(a) Greater.

(b) Lesser.

(c) More significant.

(d) None of these.

C. 9 Who among the following had connection with India ?

- (a) Louis Pasteur. (b) Ronald Ross.  
(c) William Harvey. (d) Plato.

10 Which of the following is a revolutionary theory by Darwin ?

- (a) Evolution of species. (b) Survival of the fittest.  
(c) Natural selection. (d) None of these.

11 The Michelson-Morley experiment has been performed in

- (a) 1887. (b) 1857.  
(c) 1757. (d) None of these.

12 Who among the following would you relate to the Philosophy of science ?

- (a) Thomas Kuhn. (b) Edison.  
(c) Samuel Morse. (d) All these.

(12 x  $\frac{1}{2}$  = 3 weightage)

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

13 What is Human Genome Project ?

14 Who is associated with Stoicism ?

15 Why did Boyle kept secret a poison he discovered ?

16 What is sexism in science ?

17 What is Larry Laudan's concept of the rational ?

18 What is the argument of anti-realism ?

19 Comment on the "philosophy".

20 Who coined the term nanotechnology ?

21 What is Paul Feyerabend's statement about science ?

(5 x 1 = 5 weightage)

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

22 Pythagoras.

23 Galileo.

24 Pyramids.

25 Epicurus.

26 Gunpowder and paper technology. 27 The Kerala tradition in Mathematics.

28 Aryabhata.

(5 x 2 = 10 weightage)

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

29 The progress of humanity through Old and New stone ages.

30 The Chinese contribution to science.

31 Give a general account of the frontier technologies.

(2 x 4 = 8 weightage)