

72327

(Pages : 3)

Name.....12.....

Reg. No.....

**THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2014**

(U.G.—CCSS)

Common Course

**A 06—HISTORY AND PHILOSOPHY OF SCIENCE**

(2009–2011 Admissions)

Three Hours

Maximum : 30 Weightage

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

- (A) 1 Eratosthenes belonged to :
- (a) China. (b) Alexandria.  
(c) Mesopotamia. (d) None of these.
- 2 Striking similarity was discovered between east coast of South America and west coast of \_\_\_\_\_.
- (a) India. (b) Africa.  
(c) Australia. (d) None of these.
- 3 \_\_\_\_\_ put forward the idea of the Earth rotating on its own axis.
- (a) Aryabhata. (b) Greek philosophers.  
(c) Both (a) and (b). (d) None of these.
- 4 Hunter-gatherers existed on earth during \_\_\_\_\_ age.
- (a) Old Stone. (b) New Stone.  
(c) Bronze. (d) None of these.
- (B) 5 When was wooden plough introduced ?
- (a) 3000 B.C. (b) 1000 B.C.  
(c) 4000 B.C. (d) Not known.
- 6 Who developed the sexagesimal system ?
- (a) Babylonians. (b) Chinese.  
(c) Greeks. (d) None of these.

Turn over

- 7 Who among the following founded the Ionian School of Philosophy ?
- (a) Empedocles. (b) Thales.  
(c) Pythagoras. (d) None of these.
- 8 Who is the God of Medicine ?
- (a) Aesculapius. (b) Zeus.  
(c) Jupiter. (d) None of these.
- (C) 9 Where is the earliest known reference to speculative atomism available in the I context ?
- (a) Kanada sutra. (b) Arybhateeya.  
(c) Susruta Samhita. (d) All these.
- 10 Which of the following signify 'knowledge of long life' ?
- (a) Ayurveda. (b) Yajur veda.  
(c) Rig veda. (d) None of these.
- 11 Atreya is related to which of the following ?
- (a) Ayurveda. (b) Rig veda.  
(c) Sama. (d) None of these.
- 12 Who founded Taoism ?
- (a) Lao Tsu. (b) Liu Pang.  
(c) Confucius. (d) None of these.

(3 × 1 = 3 wei

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

- 13 Which approach treats science as a product rather than a process ?
- 14 What was the chief concern of Neolithic community ?
- 15 What are pyramids ?
- 16 What was the most interesting toy excavated from Indus valley ?
- 17 What was the rumour about Hippasos of Metaportion ?
- 18 What was the concept of compulsion that Greeks believed in ?
- 19 Comment on the historical figure Plato.
- 20 What was the contribution of Caraka ?
- 21 What is atomism ?

(9 × 1 = 9 wei

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

- 22 Earlier measurements in Science like the one made by Eratosthenes and their accuracy.
- 23 Alchemy.
- 24 Ancient universities of India.
- 25 Anti-realism
- 26 Significance of the invention of Pottery.
- 27 Information Technology.
- 28 Paul Feyerabend.

(5 × 2 = 10 weightage)

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

- 29 Write an essay on the significance of History and Philosophy of Science.
- 30 Write an essay on the remarkable features of Indus Valley civilization.
- 31 Give a brief overview of river valley civilizations outside Indian continent.

(2 × 4 = 8 weightage)