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FOURTH SEMESTER B.A/B.Sc. DEGREE EXAMINATION, MAY 2012

(CCSS)

A 06 HISTORY AND PHILOSOPHY OF SCIENCE

[Common Course for B.A/B.Sc.]

Time Three Hours   Maximum 30 Weightage

L Answer the three bunches of questions as directed

A. 1 Complex surgical procedures were described in detail in

    (a) The Rig Veda.   (b) Samaveda,

    (c) Susruta Samhita.   (d) Yajur veda.

. The chief concern of the Neolithic community was with

    (a) Crops.   (b) Hunting.

    (c) Bronze.   (d) Copper.

3 Evidence for the Continental Drift Theory came from ————.

    (a) Plate tectonics.   (b) Remote sensing,

    (c) Satellite imagery.   (d) Observation from space vehicles.

4 Agriculture was started about ——___ years ago.

    (a) 1,00 000,   (b) 50,000.

    (c) 20,000,   (d) 10,000.

B. 5 Ayurveda is part of the _____——

    (a) Atharva Veda.   (b) Rigveda.

    (c) Sama.   (d) Yajurveda.

6 Arches are associated with

    (a) Egyptians.   (b) Mesopotamians.

    (c) The Indus valley.   (d) China.

7 Who is great Mathematician and poet of Arab culture

    (a) Abu Au Hasan.   (b) Omar Khayyam.

    (c) Jabir Ibn Hayyan. (d) Muhammed ibn Musa al Khwarizmi.

8 Who is considered the father of European medical tradition ?

    (a) Giordano Bruno.   (b) Hippocrates.

    (c) William Harvey.   (d) Hipparchus.

Turn over

C. 9 _____ taught that everything came from water.

     (a) Males.   (b) Anaximander.

     (c) Aristotle.   (d) Plato.

10 The term Nanotechnology refers to

     (a) Extreme miniaturization.

     (b) Operations involving particles one nanometer or less.

     (c) Operation in the scale of 100 nanometer or less.

     (d) Anything which is done at molecular level.

11 Industrialization involved

     (a) Shift from cottage mode of production to factory mode.

     (b) Mechanization and division of labour.

     (c) The use of steam power.

     (d) All these.

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

     (a) Thomas Kuhn.   (b) Karl Popper.

     (c) Imre Lakatos.   (d) All these.

                                           (3 x 1 = 3 weightage)

IL Answer in a sentence *or* two all the *nine* questions

13 Name three most momentous inventions in early Human history.

14 What in particular made possible the appearance of civilizations in specific places ?

15 Who developed the sexagesimal system ?

16 Name the *two* works of Indian medical knowledge.

17 Who is the first recognized scientist in human history ?

18 What is deduction ? Give an example.

19 What are the components of the scientific method ?

20 What is Scientism ?

21 What is Bill Zimmerman's argument about science ?

                                           (9 x 1 = 9 weightage)

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

22. The Palaeolithic (Old Stone) age.

23. Pythagoras,

24. Julian Calendar,

25. Nanotechnology.

26, Martyrs of Science,

27. Human Genome Project.

28. Scientific temper.

(5 × 2 = 10 weightage)

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

29. What are the seminal questions raised by philosophy of science ?

30. Write an essay on the emergence of civilizations taking any two cases.

31. The transfer of knowledge from East to West.

(2 x 4 = 8 weightage)