Name.....

Reg. No.....

THIRD SEMESTER B.A./B.Sc. DEGREE EXAMINATION, NOVEMBER 2011

(CCSS)

English—Common Course

A 06—HISTORY AND PHILOSOPHY OF SCIENCE

(Common Course for B.Sc. Alternate Pattern)

Time : Three Hours

Maximum Weight : 30

- 1. Answer all the questions as directed .Weight '/4 each.
 - A. Choose the correct answer :
 - 1. The most famous early. Chinese astronomer was _____
 - (a) Confucius. (b) Lao Ts u.
 - (c) Shih Shen. (d) Liu Peng.

2 Who explained the dim illumination over the dark part of the Moon?

- (a) Galileo. (b) 1.460nardo da Vinci.
- (c) Roger Bacon. (d) Tycho Brahe.

3 It is said that the 21st century will be that of _____

- (a) Physics. (b) Mathematics.
- (c) Biology. (d) Statistics.

Praxis is concerned with

(a) Knowing.(b) Doing.(c) Making.(d) Thinking.

B. Fill in the blanks :

One particular practice of Chinese medicine that deserves special mention is

6 The greatest number of commentaries on Aryabhatiyam have been recovered from

_____ came up with a brilliant suggestion for a scientific classification of all living beings. ______ is the English physicist and novelist who talked about 'the two cultures'.

C. Answer in a word *or* phrase :

9 Which great Arab poet was also a renowned mathematician?

10 In which area of science was Paracelsus mainly interested ?

11 Name the Indian scientist who pioneered the study of cosmic radiation.

12 Who is the historian of science who highlighted the social context in which scientific discoveries take place ?

(1) $x \frac{1}{4} = 3$)

Turn over

II. Answer all the questions in a sentence or two : Weight 1 each.

- 13 What were the two important rules that the Arabs played in the history of science ? f^{tut}
- 14 What was the contribution of Alhazen (Abu Ali Hasan Ibn al Haitham) to physics ?

15 Why was Bruno burnt alive?

- 16 What was the contribution of Sin Isaac Newton to Mathematics?
- 17 Briefly describe Gregor Mendel's work.
- 18 Who coined the term nanotechnology, and how did he define it ?

19 Explain what is meant by the plasticity of a theory.

- 20 Why, according to some feminists is science sexist?
- 21 Why, according to Paul Feyerabend, is science a dangerous activity?
- III. Write short notes on any five in a paragraph each. Weight 2 each.

22 Two bronze age achievements that helped male domination.

- 23 The reactionary influence of Plato and Aristotle in Astronomy.
- 24 The work of Kepler.
- 25 Determinism in science.
- 26 The Human Genome Project.
- 27 Technologism.
- 28 Science and religion.
- IV. Write an essay on two of the following. Weight 4 each.
 - 29 The civilization of the Nile Valley.
 - 30 The growth of science in the 17th century.
 - 3.1. Scientific theories and models.

D

 $(9 \times 1 =$

 $(5 \times 2 =$

(2 x 8)