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Name.....03.....

Reg. No.....

**FOURTH SEMESTER B.A./B.Sc. DEGREE EXAMINATION
APRIL/MAY 2015**

(UG—CCSS)

Common Course

A 06 – HISTORY AND PHILOSOPHY OF SCIENCE

(2012 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

I. Answer the *three* bunches as directed :

(A) Fill in the blanks choosing options given :

(Russell, J.M. Ziman, Axiom, Proverb, Spender)

- 1 A statement self-evidently true is _____.
- 2 "But far above and far as sight endures, Like whips of anger, With lightning's danger, There runs the quick perspective of the future" is from _____.
- 3 _____ says, "Science is obviously like Religion, Law, Philosophy, etc. in being a more or less coherent set of ideas".
- 4 _____ says, "the priest is being succeeded by the physician, the physician by the man of science".

(B) Choose the correct answer from the options given in brackets :

(Kingsley William Amis, Spender, Alfred Nobel, Jan Ingen-Housz, Arnold)

- 5 Lucky Jim was written by _____.
- 6 Gun powder experience was narrated by ?
- 7 Who talks about "sea of faith" ?
- 8 Who found solution for the problem of transporting nitro-glycerine ?

(C) Match the following from clues in the brackets :—

(Bernal, Nobel, Spender, Russell, Einstein)

- 9 Changing English countryside.
- 10 Irish-born socialist and communist.
- 11 "Men of science are not supermen".
- 12 "How strange is the lot of us mortals ! Each of us is here for a brief sojourn".

(3 × 1 = 3 weightage)

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

- 13 Who are the three French writers referred to by Tannery as scholars ?
- 14 Why is it said that a historian of science should take the role of a judge ?

Turn over

- 15 Why is the Greek contribution to algebra, geometry, astronomy and medicine important ?
- 16 What is the most valuable thing in the pageant of human life according to Einstein ?
- 17 Why did his family sent Alfred Nobel out into the world ?
- 18 How does J.M. Ziman differentiate poetry from science ?
- 19 What is the attitude to nature in 'The Pylons' ?
- 20 What is the mother's solution to the communication problem ?
- 21 What, according to Russell, is the responsibility of a genuine man of science ?

(9 × 1 = 9 weights)

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

- 22 Relevance of Vedic and post-Vedic periods in history ?
- 23 Einstein's views on democracy.
- 24 Split personality of Alfred Nobel.
- 25 Pseudo-scientific nonsense mentioned by Russell.
- 26 Why does Snow say that cultural divide is at its sharpest in England ?
- 27 What aspects of science are criticized in 'My Son, the Physicist' ?
- 28 Nobel's letter to Bertha.

(5 × 2 = 10 weights)

IV. Answer any *two* out of the three in about 300 words :

- 29 Write an essay on C.V. Raman's recollections of his undergraduate days in Presidency College.
- 30 Einstein's views on the effects of science on human society.
- 31 How does J.M. Ziman attempt to answer the question, 'what is science' ?

(2 × 4 = 8 weights)