

**FOURTH SEMESTER B.A./B.Sc. DEGREE (SUPPLEMENTARY/
IMPROVEMENT) EXAMINATION, MAY 2016**

(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 of questions as directed :

(A) Fill in the blanks choosing options given :

(Sir Kingsley William Amis, Mendel, sixty thousand, Leon Brunschvicg, C.P. Snow)

1 _____ stated the discoveries of the past exist for us it did not exist for them

2 The author of Lucky Jim is _____

3 The study of heredity was revolutionized by a monk named _____

4 Nobel gave a cheque of _____ kroner to Andree.

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

(Stephen Spender, Frances Lucy Wightman, Prof. E.H. Elliot, C.P. Snow, Matthew Arnold)

5 Ah, love let us be true is addressed to.

6 The poem The Pylons' was written by.

7 C.V. Raman's English teacher.

8 'The number 2 is a very dangerous number', is a statement by.

(C) Match the following taking clues from the brackets

(Army's Multivac Computer, Greek, Dynamite, C.P. Snow, Paul Tannery)

9 _____ science owes its-development to Babylonia and Egyptian sciences.

10 One of the greatest factors in war and peace.

11 Gerard needed this to solve his problem..

12 All the lessons of our educational history suggest we are only capable of increasing specialization, not decreasing it.

(3 x 1 = 3 weightage)

Turn over

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

- 13 What is the third source of danger to mankind ?
- 14 In which different fields were Nobel Prizes given ?
- 15 What are the ideals that have lighted Einstein's way and gave him courage to face life cheerfully ?
- 16 Science represents duality. Why ?
- 17 What are the grave problems that technology has confronted man with ?
- 18 How is Mrs. Cremona described in the lesson ?
- 19 Besides being a scholar, a historian of science needs some more qualities. What are they ?
- 20 How are the English classes described by C.V. Raman ?
- 21 What does Einstein remind himself a hundred times a day ?

(9 x 1 = 9 weightage)

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

- 22 The Gunpowder experience.
- 23 General History and Special History.
- 24 Professor Bilderbeck and C.V. Raman.
- 25 The pseudo-scientific nonsense talked about heredity as mentioned by Russell.
- 26 How does Ziman analyse the definition of science as the study of the material world ?
- 27 The letter written by Alfred Nobel to Bertha.
- 28 Write a short note on the conflict between science and religion in Victorian England.

(5 x 2 = 10 weightage)

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

- 29 Why is the definition 'science is the experimental method' said to be incomplete.
- 30 Write an essay on Einstein's views on the effects of science on human society.
- 31 How does Paul Tannery point out the main theme which should be taken into consideration as part of the preparation to be made before writing the history of science.

(2 x 4 = 8 weightage)