

[This question paper contains 4 printed pages.]

4422

Your Roll No. ....

**B.Sc. (G)/(Hons.)**

**AS**

**HISTORY OF SCIENCE AND SCIENTIFIC METHOD**

*Time : 3 Hours*

*Maximum Marks : 100*

*(Write your Roll No. on the top immediately  
on receipt of this question paper.)*

*Use separate answer-books for Section A and Section B.*

**SECTION A**

**(Physical Sciences) (Marks : 50)**

*Attempt three questions in all.*

*Question No. 1 is compulsory.*

1. State one discovery or invention made by the following :

- (i) Mary-Curie
- (ii) Roentgen
- (iii) C.V. Raman
- (iv) Faraday
- (v) Nobel
- (vi) Galeleo
- (vii) Aryabhata
- (viii) Cavendish
- (ix) Mendeleev

(9×2=18)

P.T.O.

2. Give an account of the life and work of any two of the following in about 200 words

(a) W.H. Bragg

(b) Isaac Newton

(c) Dalton

(d) Priestley (8×2=16)

3. Write short notes on any two of the following :

(a) Telescope

(b) Thermometer

(c) Barometer

(d) Development of the periodic table (8×2=16)

4. Describe the development of any two of the following :

(a) Steam Engine

(b) Pendulum Clock

(c) X-rays (8×2=16)

5. Science is a boon or a curse. Discuss in about 250 words. (16)

**SECTION B****(Biology)****(Marks : 50)***Attempt three questions only.**Question No. 1 is compulsory.*

1. Match the following :

Column AColumn B

- |                       |  |
|-----------------------|--|
| (i) Claude Bernard    | (a) Small pox vaccination              |
| (ii) Rene Laennec     | (b) Mechanism of neurological disorder |
| (iii) Edward Jenner   | (c) Stethoscope                        |
| (iv) Sigmond Freud    | (d) Germ cell theory                   |
| (v) August Weismann   | (e) Leukemia                           |
| (vi) T.H. Morgan      | (f) Glycogen in liver                  |
| (vii) Rudolph Virchow | (g) Microscope                         |
| (viii) Joseph Lister  | (h) Chromosome carry factor            |
| (ix) Leeuwenhoecke    | (i) Antiseptic Surgery                 |

(9×2)

2. Write about major contribution of any four of the following :

(i) Alexander Heming

(ii) Ronald Ross

P.T.O.

- (iii) Charles Darwin
  - (iv) Eijkmann
  - (v) Paul Ehrlich
  - (vi) Joseph Lister (4×4)
3. (i) What is mitosis ? Describe all the stages of cell division. (8)
- (ii) Describe the work of Louis Pasteur. (8)
4. Give a detailed account of contribution of Gregor Mendel in understanding heredity. (16)
5. (i) What is Wilhelm Roux's contribution in bacteriology ? (8)
- (ii) Describe in brief the life and works of Charles Darwin. (8)