

1896

[This question paper contains printed pages]

Your Roll No.....

B.Sc.(G) / (Hons)

E

HISTROY OF SCIENCE AND SCIENTIFIC METHODS

Time: 3 Hours

Max. 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 Science)

Marks:50

Attempt **Three** questions only from section A. Question number **One** is compulsory.

Q1 .Match the following

2x10

S. No.	Discovery/Invention	Scientist Involved
1	Laser	a. Marie Curie
2	Steam engine	b. Albert Einstein
3	Theory of relativity	c. Alfred Nobel
4	Telescope	d. James Watt
5	Neutron	e. Galileo Galilei
6	Radium	f. John Bardeen
7	Wireless telegraphy	g. Thomas Elva Edison
8	Electric bulb	h. Maiman
9	Transistor	i. Chadwick
10	Dynamite	j. Marconi

Q2. Give an account of the life and work of any **two** of the following:

- (1) Avogadro
- (2) James Clerk Maxwell
- (3) S.N. Bose
- (4) Johannes Kepler

2x7½

Q3. (a) How was Bacon's view of scientific method essentially different from that of Descartes?
What are the various steps involved in scientific method? 2,5

(b) Explain with the help of example how the verification of hypothesis leads to the formation of theory. 8

Q4: Describe the historical development of any **two** of the following instruments:

(a) Air-pump

(b) Barometer

(c) Pendulum clock

(d) Microscope

2x7½

Q5. Write short notes of any **two** of the following:

(a) Science in antiquity

(b) Nuclear energy

(c) Heliocentric model of universe

(d) Development of periodic table

2x7½