

2024

(CBCS)

(3rd Semester)

HISTORY OF SCIENCE

Full Marks : 75

Time : 3 hours

*The figures in the margin indicate full marks for the questions***(SECTION : A—OBJECTIVE)**

(Marks : 10)

Tick (✓) the correct answer in the brackets provided :

1×10=10

1. A proposed explanation of a phenomenon which requires to be tested is known as
 - (a) hypothesis ()
 - (b) theory ()
 - (c) law ()
 - (d) empirical evidence ()
2. An orderly procedure carried out with the goal of verifying, refuting or establishing the validity of a hypothesis is called
 - (a) hypothesis ()
 - (b) experiment ()
 - (c) law ()
 - (d) theory ()
3. Cell was discovered by
 - (a) Galen ()
 - (b) William Harvey ()
 - (c) Robert Hooke ()
 - (d) Robert Koch ()

4. *On the Origin of Species* was written by
(a) Darwin ()
(b) Mendel ()
(c) Rudolf Virchow ()
(d) Louis Pasteur ()
5. Penicillin was discovered by
(a) Alexander Fleming ()
(b) Selman Waksman ()
(c) Gerhard Domagk ()
(d) Linus Pauling ()
6. DNA double helix structure was discovered by
(a) Watson and Crick ()
(b) Galen and Virchow ()
(c) Albert Schatz ()
(d) Avogadro ()
7. Periodic table was invented by
(a) John Dalton ()
(b) Dmitri Mendeleev ()
(c) Robert Boyle ()
(d) James Watson ()
8. Who among the following scientists discovered atomic theory?
(a) Avogadro ()
(b) John Dalton ()
(c) Robert Boyle ()
(d) None of them ()
9. Law of gravity was discovered by
(a) Newton ()
(b) Galileo ()
(c) Albert Einstein ()
(d) None of them ()
10. Theory of relativity was the work of
(a) Albert Einstein ()
(b) Galileo ()
(c) Newton ()
(d) None of them ()

(SECTION : B—SHORT ANSWERS)

(Marks : 15)

Write short notes on the following :

3×5=15

UNIT—I

1. Hypothesis

OR

2. Contribution of Aristotle in Biology

UNIT—II

3. Cell theory

OR

4. Contribution of Antonie van Leeuwenhoek on the discovery of cell

UNIT—III

5. Discovery of Penicillin

OR

6. Contribution of J. Robert Oppenheimer

UNIT—IV

7. Contribution of Robert Boyle

OR

8. Contribution of Avogadro

UNIT—V

9. Raman Effect

OR

10. Contribution of Marie Curie

(SECTION : C—DESCRIPTIVE)

(Marks : 50)

Answer the following :

10×5=50

UNIT—I

1. Write notes on the following :
 - (a) Theory
 - (b) Law

OR

2. Write notes on the following :
 - (a) Baconian inductivism
 - (b) Occam's razor

UNIT—II

3. Explain Mendel experiment and his laws.

OR

4. Write the contribution of William Harvey for the development of physiology.

UNIT—III

5. Describe the discovery of the drug Prontosil (sulphonamide) by Gerhard Domagk.

OR

6. Write a note on the contribution of Har Gobind Khorana.

UNIT—IV

7. Write a note on the contribution of Dmitri Mendeleev.

OR

8. Write notes on the following :
 - (a) Alchemy
 - (b) Philosopher's stone

UNIT—V

9. Explain the works and contribution of Thomas Alva Edison.

OR

10. Write the contribution of Galileo for the development of science.

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UNIT—IV

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OR

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UNIT—V

9. Raman Effect

OR

10. Contribution of Marie Curie

(SECTION : C—DESCRIPTIVE)

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