



CHEMISTRY

BOOKS - ICSE

INTRODUCTION TO CHEMISTRY

Exercise Tick The Most Appropriate Answer

1. Chemistry is a branch of science which deals with the study of

A. plants

B. animals

C. characteristics and composition of
substances

D. the earth

Answer:



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2. The periodic law was formulated by

A. Lavoisier

B. Mendeleev

C. Dalton

D. Rutherford

Answer:



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3. An example of a petrochemical is

A. steel

B. kerosene

C. brick

D. silk

Answer:



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4. Silicon and germanium find use in

A. electronics

B. explosives

C. fertilizers

D. mortar

Answer:



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5. An example of explosives is

A. trinitrotoluene

B. paracetamol

C. saccharin

D. coal

Answer:



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Exercise Fill In The Blanks

1. _____ is the system of acquiring knowledge by observation and experimentation.



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2. _____ are used for the preservation of food.



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3. _____ are applied to the human body for beautifying the appearance and for cleansing.



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4. Nylon, polyester and terylene are _____ fibres.



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5. _____ are chemicals that provide nutrients to crops and increase their production.



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Exercise Matching

1. Match the columns.

- | | |
|-----------------|---------------------------------------|
| 1. Lavoisier | a. proposed the Atomic theory |
| 2. Mendeleev | b. discovered the nucleus of the atom |
| 3. Alchemy | c. designed the periodic table |
| 4. Dalton | d. wrote <i>The Skeptical Chymist</i> |
| 5. Robert Boyle | e. named oxygen and hydrogen |
| | f. transmutation of metals to gold |



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Exercise Write True Or False Correct The False Statements

1. Sodium benzoate is a preservative.



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2. Talcum powder is made from a mineral called iron.



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3. TNT is an explosive.



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4. Pesticides and insecticides are chemicals used to kill pests and insects that affect the production of crops.



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5. Silicon and germanium are used in the electronics industry.



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Exercise Answer The Following In Short

1. Define chemistry.



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2. What are food additives ? Give two examples of each type of additive and the role played by them.



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3. What are petrochemicals?



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4. Silicon and germanium are used in the electronics industry.



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5. Name some building materials manufactured by chemical processes.



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6. Why is a wire gauze placed under glass apparatus when they are heated?



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Exercise Answer The Following In Detail

1. Describe the various activities related to chemistry that were practised in ancient civilizations.



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2. Describe the applications of chemistry in food industry.



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3. List any four safety precautions to be followed in a chemistry laboratory.



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Think And Answer

1. Everything in the world is chemistry. Justify.



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2. How are modern chemists different from alchemists? Can we call the alchemists scientists?



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1. Give two examples for each of the following substances :

food preservatives



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2. Give two examples for each of the following substances :

fuels



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3. Give two examples for each of the following substances :

fungicides



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4. Give two examples for each of the following substances :

medicines



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5. Give two examples for each of the following substances :

building materials



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6. Give two examples for each of the following substances :

chemical war weapons



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7. Give short answers :

What is science ?



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8. Give short answers :

What is chemistry?



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9. Give short answers :

What is a fuel ?



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10. Give short answers :

How is chemistry helpful in improving the health of human beings?



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11. Give short answers :

What is alchemy?



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12. Give short answers :

What kind of experiments did Alchemists do ?



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13. Give short answers :

What is Philosopher's stone'?



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14. Give short answers :

What is the main difference between alchemy and chemistry?



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15. Give short answers :

Name the chemicals which help in increasing food production.



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16. Give short answers :

Name six chemical products which we use daily.



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17. What is the contribution of chemistry in the following fields ?

Industry



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18. What is the contribution of chemistry in the following fields ?

Clothings



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19. What is the contribution of chemistry in the following fields ?

Cosmetics



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20. What is the contribution of chemistry in the following fields ?

National Defence



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21. What is the contribution of chemistry in the following fields ?

Medicines



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22. Who is known as the 'Father of Chemistry'?



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23. Name the scientists who discovered the following.

Atoms



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24. Name the scientists who discovered the following.

Oxygen'



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25. Name the scientists who discovered the following.

Safety lamp



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26. Name the scientists who discovered the following.

Elements



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Objective Type Questions

1. deals with the study of matter and the changes it undergoes.



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2. help to increase the production of food.



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3. Food items like jams and pickles are protected by using



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4. L.P.G is used for



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5. Inert gases were discovered by



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6. Match the following words in column A with those in column B :

Column A

Column B

- | | |
|------------------------------|---------------------------|
| (a) Clothing | (i) toothpaste, cosmetics |
| (b) Green revolution | (ii) nylon, wool |
| (c) Building materials | (iii) agriculture |
| (d) Commodities of daily use | (iv) mortar, cement |



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7. Chemistry plays an important role in our national economy.



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8. Antibiotics are used as preservatives.

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9. D.D.T. is an important fertiliser.



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10. Gunpowder is an insecticide.



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11. Enzymes secreted by our body are chemicals.



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12. Trinitrotoluene is used as

A. a preservative

B. a fertiliser

C. a fuel

D. an explosive

Answer:



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13. Which one of the following is a pesticide?

A. benzoic acid

B. aldrin

C. sugar

D. gun powder

Answer:



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14. Mortar is used as a

A. plastic material

B. a building material

C. an insecticide

D. as medicine

Answer:



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15. Urea is an important

- A. fuel
- B. preservative
- C. fertiliser
- D. food item

Answer:



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16. The chemicals prescribed by a doctor in treatment of infectious diseases are called

A. antigens

B. lotions

C. antibiotics

D. creams

Answer:



17. Match the following scientists in column A with their discoveries or contributions in column B. Column A Column B

Column A	Column B
(a) Marie Curie	(i) Safety lamp
(b) John Dalton	(ii) Helium
(c) William Ramsey	(iii) Nobel Prize Winner (two times)
(d) Sir Humphry Davy	(iv) Atomic theory

