

MOCK SCIENCE SUBJECTIVE TEST
CLASS – VIII (SET – 1)**Maximum Marks: 80****Duration: 3.0 Hrs.**Crop Production, Force and Pressure, Coal and Petroleum, Combustion and Flame, Sound,
Friction, Micro-Organisms, Conservation of Plants and Animals**General Instructions:**

1. This question paper consists of **34 questions**. All questions are compulsory.
2. **Paper Pattern and Marking Scheme:**
There are **Four Sections** in the question paper (Section **A, B, C** and **D**).
 - In **Section A** – question numbers **1 - 15** are Multiple Choice Questions (MCQs) carrying **1** mark each.
 - In **Section B** – question numbers **16 - 22** are Very Short Answer Questions (VSA) type carrying **2** marks each. Answer to these questions should be in the range of **30** to **50** words.
 - In **Section C** – question numbers **23 - 31** are Short Answer Questions (SA) type carrying **4** marks each. Answer to these questions should be in the range of **50** to **80** words.
 - In **Section D** – question numbers **32 - 34** are Long Answer Questions (LA) type carrying **5** marks each. Answer to these questions should be in the range of **80** to **120** words.

(SECTION – A)

1. The frequency of a sound is 20 Hz. Find its time period.
(A) 0.05sec (B) 0.5sec (C) 0.2sec (D) 0.02sec
2. A force of 16N is distributed uniformly on one surface of a cube of edge 8cm. The pressure on this surface is:
(A) 3500 Pa (B) 2500 Pa (C) 4500 Pa (D) 5500 Pa
3. Express 10N force in terms of $g\ cm\ s^{-2}$.
(A) $10^5\ g\ cm\ s^{-2}$ (B) $10^6\ g\ cm\ s^{-2}$ (C) $10^3\ g\ cm\ s^{-2}$ (D) $10^4\ g\ cm\ s^{-2}$
4. It is easier to pull boxes with rollers because of:
(A) Rolling friction (B) Sliding friction (C) Lubricants (D) Viscous force

5. A matchstick lights due to:
(A) Pressure (B) Friction (C) Smoothness (D) None of these
6. Coal is processed in industries to get some useful products. Which of the following is not obtained from coal?
(A) Coke (B) Coal gas (C) Coal tar (D) CNG
7. Exhaustible natural resources are:
(A) Unlimited in quantity (B) Most dependent on nature
(C) Limited in quantity (D) Not exhausted by human activities
8. Fossil fuels are obtained from:
(A) Remains on non-living materials (B) Dead remains of birds only
(C) Dead remains of insects only (D) Dead remains of living organisms
9. The substance that does not burn with flame is:
(A) LPG (B) Dry grass (C) Camphor (D) Charcoal
10. On placing an inverted tumbler over a burning candle, the flame extinguishes after some time. This is because of non-availability of:
(A) Oxygen (B) Carbon dioxide
(C) Water vapour (D) Wax
11. Removing chaff from the grains is called:
(A) Weeding (B) Threshing (C) Harvesting (D) Winnowing
12. Which of the following crops seedlings need to be transplanted?
(A) Wheat (B) Potato (C) Mustard (D) Rice
13. Hoe is a simple tool used for:
(A) Weeding (B) Ploughing (C) Seed sowing (D) Harvesting
14. Species which are restricted only to specific area and not in any other geographical are called _____ species.
(A) Extinct (B) Endangered (C) Endemic (D) None of these
15. Natural causes of deforestation include:
(A) Forest fires (B) Lightning
(C) Electric currents (D) Both (A) and (B)

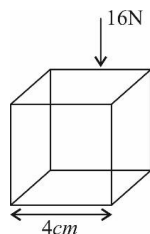
(SECTION – B)

16. A force of 50 N is needed to keep a trolley of mass 60 kg moving at a uniform velocity of $2ms^{-1}$. What is the frictional force on the trolley?
17. What is atmospheric pressure?

18. What is sound? Is sound an example of transverse wave or longitudinal wave?
19. Some natural resources are given below. Classify them into the exhaustible and inexhaustible natural resources.
Air, Coal, Natural gas, Sunlight, Petroleum, Minerals, Forests, Oxygen.
20. Boojho wants to separate the following materials as combustible and non-combustible. Can you help him?
Charcoal, Chalk, Stone, Iron rod, Copper coin, Straw, Cardboard, Glass, Paper, Candle, Wood.
21. Why drip irrigation saves wastage of water?
22. State any four beneficial effects of bacteria.

(SECTION – C)

23. Define transverse wave. Write any two examples.
24. A force 16 N is distributed uniformly on one surface of a cube of edge 4 cm . The pressure on this surface is $x \times 10^4\text{ Pa}$. Find the value of x .



25. Write any two disadvantages of friction. Why do Kabaddi players rub their hands with soil?
26. (a) Write two important uses of coke.
(b) Write the characteristics and some important uses of coal.
27. Give two examples each for a solid, liquid and gaseous fuel along with some important uses.
28. We read in newspapers that burning of fuels is a major cause of global warming. Explain why?
29. What do you mean by migration? Write the causes of migration of birds. Name two migratory birds.
30. What are weeds? How can we control them?
31. Write 8 lines on the usefulness of micro-organisms in our lives.

(SECTION – D)

32. (a) What do you mean by the term friction?
(b) Write all types of friction?
(c) Differentiate between static & kinetic friction.
(d) Write any two methods for reducing friction.
(e) Explain why objects moving in fluids must have special shapes.

33. (a) What are the three essential requirements to produce fire? How fire extinguishers is useful for controlling the fire.
- (b) Why is the use of diesel and petrol as fuels in automobiles being replaced by compressed natural gas (CNG) in big cities?
- (c) Anu wants to boil water quickly in a test tube. On observing the different zones of the flame, she is not able to decide which zone of the flame will be the best for boiling water quickly. Help her in this activity.
34. Explain the nitrogen cycle with a diagram?