

MOCK SCIENCE SUBJECTIVE TEST
CLASS – VIII (SET – 2)**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. A vibrating body vibrates 200 times in 5 second calculate its frequency:
(A) 30 Hz (B) 40 Hz (C) 500 Hz (D) 1000 Hz
2. Express 10 N force in terms of a dynes.
(A) 10^5 dynes (B) 10^6 dynes (C) 10^7 dynes (D) 10^8 dynes
3. At the centre of earth the acceleration due to gravity is:
(A) Infinite (B) Zero (C) 9.8cm^{-2} (D) All are above
4. Which of the following doesn't reduce friction?
(A) Ball bearing (B) Rolling
(C) Lubricant (D) Grooving and treading

5. Friction acts when there is relative motion between.
(A) Solids (B) Liquids
(C) Gases (D) Solid, liquids or gases
6. Which of the following is a greenhouse gas?
(A) Carbon dioxide (B) Carbon monoxide
(C) Hydrogen (D) Nitrogen
7. Coke, coal gas and coal tar are products of:
(A) Destructive distillation of wood (B) Destructive distillation of coal
(C) Dissolving the coal in water (D) Burning wood in air
8. The zone that produces yellow light in the candle flame is:
(A) Non-luminous zone (B) Luminous zone
(C) Invisible zone (D) All zones give light
9. In presence of water, ignition temperature of paper:
(A) Decreases (B) Increases
(C) Remains constant (D) Can decrease or increase
10. Ideal fuel has _____ calorific value.
(A) Low (B) High
(C) Moderate (D) Zero
11. Cutting of mature crops with sickle is called:
(A) Threshing (B) Harvesting (C) Winnowing (D) All of these
12. Sprinkler system of irrigation is very advantageous because it:
(A) helps the fields to get water logged (B) controls the water supply
(C) increase the evaporation of water (D) decreases the evaporation of water
13. Mushrooms are:
(A) Algae (B) Bacteria (C) Fungi (D) Protozoa
14. Pasteurisation is a method invented by:
(A) Edward Jenner (B) Alexander Fleming
(C) Louis Pasteur (D) Robert Koch
15. Which of the following is the example of human interference with nature that has upset the biological balance?
(A) Afforestation (B) Recycling of paper
(C) Poaching (D) Rain harvesting

(SECTION – B)

16. What is fluid friction?
17. A force 20 N acts over an area of 4 cm^2 . Find the value of pressure? [in N m^{-2}]
18. What do you understand by audible & inaudible range of sound? Also write the range of frequency for audible sound.
19. What are petrochemicals? What are their uses?
20. What is the job of a fire extinguisher? How does the fire brigade work to extinguish fire?
21. What will happen if: (Attempt any two)
- (a) we go on cutting trees
 - (b) the habitat of animal is disturbed
 - (c) the top layer of soil is exposed
22. Name any two fungi.

(SECTION – C)

23. Explain the terms:
- (a) Amplitude
 - (b) Time period
 - (c) Frequency
 - (d) Wavelength
24. The mass of the body is 60 kg , if value of acceleration due to gravity is 10 ms^{-2} and weight of the body is $x \times 10^2\text{ N}$. Find x .
25. Find in the blanks.
- (a) Friction opposes the _____ between the surfaces in contact with each other.
 - (b) Friction depends on the _____ of surfaces.
 - (c) Friction produces _____.
 - (d) Sliding friction is _____ than the static friction.
26. (a) What are the harmful effects of increasing consumption of fuels?
(b) Why is the use of diesel and petrol as fuels in automobiles being replaced by compressed Natural Gas (CNG) in big cities?
(c) Name the products obtained and their uses when coal is processed in industry.
27. What are the advantages of using CNG and LPG as fuels?
28. Name few pollutants produced by incomplete combustion of fuels and mention their harmful effects.

29. Write a paragraph in your own words on each of the following:
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|-------------------------|---------------|
| (a) Preparation of soil | (b) Sowing |
| (c) Weeding | (d) Threshing |
30. Differentiate between the following:
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| (a) Wildlife sanctuary and biosphere reserve |
| (b) Zoo and wildlife sanctuary |
| (c) Endangered and extinct species |
| (d) Flora and fauna |
31. What are food preservatives? Write about some common preservatives.

(SECTION – D)

32. (a) What do you mean by the term force?
(b) Differentiate between contact & non-contact force.
(c) Why do the school bags have broad shoulder straps.
(d) A person weights 600 N . He is wearing shoes with a total area of 0.02 m^2 . What pressure do they exert on the floor?
(e) Write any two effects of force.
33. **Give reasons:**
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| (a) Water is not used to control fires involving electrical equipment. |
| (b) LPG is a better domestic fuel than wood. |
| (c) Paper by itself catches fire easily whereas a piece of paper wrapped around and aluminium pipe does not. |
34. Explain the nitrogen cycle with a diagram?