

8th SA- 1 Model Paper (2025) **Subject : Science,** **Total Marks : 40**

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[12 x 1 = 12]

1. The most pure form of carbon fuel among the following is,
A. coal B. coke C. charcoal D. coal gas
 2. Bowlers use shoes with spikes. Because,
A. friction decreases and speed decreases.
B. friction becomes zero and helps to slide easily.
C. friction increases and provide grip with the ground.
D. nullifies the friction between legs and the ground.
 3. Which of the following can be used to extinguish fire at the petrol pump?
A. Water B. Carbon dioxide
C. Blanket D. None of these
 4. Burning of hydrogen is an example of
A. slow combustion B. rapid combustion
C. explosion D. spontaneous combustion
 5. Which of the following is an example of contact force?
A. Magnetic force B. Gravitational force
C. Electric force D. Muscular force
 6. If two forces act in the opposite directions on an object, the net force acting on it is the
A. Sum of the two forces B. difference between the two forces
C. Multiplication of the two forces D. Division of the two forces
 7. Force of friction is more in
A. marble tiles B. wooden floor
C. playground D. glass table
 8. Petroleum product used to road surfacing among the following is
A. Bitumen B. Petrol
C. Diesel D. Kerosene
- The process of conversion of sugar into alcohol is called
- A. nitrogen fixation B. moulding
 - C. fermentation D. infection
9. An agricultural scientist suggests to install sprinkler system of irrigation to a farmer after observing his coffee estate in a hilly region. Because,
- A. availability of water is poor and water drops fall near the roots.
 - B. land is un even and availability of water is less.
 - C. land is even and water evaporates quickly.
 - D. availability of water is enough and roots are not strong.

11. Carrier of malaria-causing protozoan is
A. female Anopheles mosquito B. cockroach
C. housefly D. female Edes mosquito

12. The cutting of crop after it is mature is called
A. irrigation B. weeding C. harvesting D. threshing

II. Answer the following questions in a sentence each [3 x 1 = 3]

13. Draw the diagram showing the structure of Paramecium.
14. Write any two disadvantages of using fossil fuels.
15. Why does a boat come to rest when we stop rowing it?

III. Answer the following questions. [6 x 2 = 12]

16. Describe how coal is formed from dead vegetation. What is this process called?
17. "Sliding friction is smaller than the static friction". Explain.

OR

Explain why objects moving in fluids must have special shapes.

18. We are not crushed under the force of gravity. Why? Explain
19. Describe the characteristics and uses of coke.
20. What are the advantages of using the seed drill with the help of tractors for sowing ?
21. Give reason - LPG is a better domestic fuel than wood.

IV. Answer the following questions [3 x 3 = 9]

22. Give three factors on which the frictional force in fluids depends.
23. Draw the diagram showing different zones of candle flame and label following parts.

(i) hottest part (ii) least hot part

24. Write three differences between manures and fertilisers.

V. Answer the following question [4 x 1 = 4]

25. a) Write any three uses of microorganisms.
b) Viruses are different from other microorganisms. How?

OR

- a) List the harmful effects of microorganisms.
b) Why it is advisable to always keep food covered?

Note : Please Don't ask for the blue print and key Answer.

For detailed notes and question answers you can refer

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