

O. P. JINDAL SCHOOL, SAVITRI NAGAR

Annual Examination (2022 – 2023)

Sample paper

Class / Section: IV \_\_\_\_\_

MM:80

Subject: Science

Time: 2 hr

Name \_\_\_\_\_

Roll No.: \_\_\_\_\_

Invigilator's Sign: \_\_\_\_\_

(Fifteen Minutes Extra will be given for reading the Question Paper.)

General Instructions:

- The question paper comprises of five sections A, B, C, D and E. There are 24 questions in the question paper. All questions are compulsory.
- Section A, question no. 1 is of MCQ type carrying 1 mark each.
- Section B, question no. 2 and 3 are of case-based and carrying 4 marks each.
- Section C, question no. 4 to 12 are very short answer type and carrying 2 marks each.
- Section D question no. 13 to 21 are short answer type and carrying 3 marks each.
- Section E question no. 22 to 24 are long answer type and carrying 5 marks each

Section-A

Q-1. Tick the correct option-

(i) When something burns, it combines with

- a) Dust                      b) Oxygen                      c) Soot                      d) None of these

(ii) A soluble substance can be separated from water by \_\_\_\_\_.

- a) Filtration                      b) Sedimentation                      c) Decantation                      d) Evaporation

(iii) Shadow is the smallest

- a) At noon                      b) In the morning                      c) In the evening                      d) None of these

(iv) 1000 m. = \_\_\_\_\_

- a) 1 c.m.                      b) 1 kilometre                      c) 1 milli meter                      d) 1 Decimetre

(v) 60 seconds = \_\_\_\_\_

- a) 1 minute                      b) 5 minutes                      c) 2 minutes                      d) 1 hour

(vi) Part of a thermometer that we usually put inside the mouth -

- a) Mercury                      b) Bulb                      c) Glass tube                      d) None of these

[Type here]

(vii) When we pull something by a string, we use \_\_\_\_\_ force.

- a) Magnetic      b) Nonmagnetic      c) Contact      d) Non-contact

(viii) Things with a greater mass feel \_\_\_\_\_ because the earth pulls them harder.

- a) Thin      b) Light      c) Heavy      d) All of these

(ix) A silver –grey metal-

- a) Mercury      b) Nickel      c) Cobalt      d) Iron

(x) The force of \_\_\_\_\_ depends on mass.

- a) Contact      b) Nonmagnet      c) Magnet      d) Gravity

(xi) People powder carom board to decrease \_\_\_\_\_.

- a) Movement      b) Heat      c) Friction      d) Force

(xii) The lead of pencil is made of \_\_\_\_\_.

- a) Steel      b) Graphite      c) Iron      d) Nickle

### **(Section-B)**

**Q-2 Read the paragraph and tick the correct answers. (Case based)-**

Air is polluted by harmful substances called pollutants. Pollutants come from different sources, such as volcanic eruptions, vehicle gasses, forest fires, and other human activity. Deforestation and the burning of fossil fuels are two of the biggest sources of air pollution. Air pollution is harmful to humans since it can cause respiratory and skin diseases. Air pollution is also harmful to plants and animals.

(i) Harmful substance present in air -

- a) Water      b) Gases      c) Pollutant      d) All of these

(ii) Air pollution can cause \_\_\_\_\_ diseases.

- a) Neural      b) Digestive      c) Respiratory      d) None of these

(iii) \_\_\_\_\_ and burning of fuel are two measure source of air pollution.

- a) Deforestation      b) Afforestation      c) Both A and B      d) None of these

(iv) Air pollution is \_\_\_\_\_ for Plants and animals.

- a) Valuable      b) Useful      c) Harmful      d) Both a and b

**Q-3. Read the paragraph and tick the correct answers. (Case based)-**

Iron, copper and zinc are metals, so are gold, silver and aluminium. Metals are generally hard, shiny solids. mercury is an odd metal. It is a liquid metal. We use metal and alloy to make many things Because they are hard and strong and can be moulded into any shape.

(i) Mercury is a \_\_\_\_\_ Metal.

- a) Gaseous      b) Solid      c) Liquid      d) Hard

(ii) Metal is hard and \_\_\_\_\_ so that we can make many things.

- a) Strong      b) Weak      c) Thin      d) All of these

(iii) Gold is a \_\_\_\_\_.

- a) Gas      b) Liquid      c) Metal      d) None of these

(iv) We use \_\_\_\_\_ to make anything.

- a) Liquid      b) Metals      c) Gas      d) None of these

**(Section-C)**

**Q-4.** Draw any two luminous objects.

**Q-5.** How does the moon shine even though it is a nonluminous body?

Ans- \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Q-6.** Why do we often say 'weight' when we mean 'mass'?

Ans- \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

[Type here]

**Q-7.** Which metal is used in common thermometer?

**Ans-** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Q-8.** What is force?

**Ans-** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Q-9.** What is the name of the force with which the earth pulls us ?

**Ans** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Q-10.** Name two things we use to reduce friction.

**Ans-** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Q-11.** How do we increase friction between two surfaces?

**Ans-** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Q-12.** How does friction help us to walk?

**Ans-** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**(Section -D)**

**Q-13.** How does dust help in formation of cloud?

**Ans-** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Q-14.** How does walking, cycling, carpooling and using public transport help to reduce air pollution?

**Ans-** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Q-15.** How are plants affected by air pollution?

**Ans-** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Q-16.** How would you separate soil from a mixture of soil and water?

**Ans-** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Q-17.** Name two solvents used to dissolve substances that do not dissolve in water.

**Ans-** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Q-18.** What is a solution?

**Ans-** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Q -19.** How does a shadow form?

**Ans-** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Q-20.** Draw the diagram of a balance and a ruler.

**Q-21.** How do we measure mass with the help of a balance?

**Ans-** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(Section-E)

**Q-22 (i)** Why is it not possible to see a light source that is behind you?

**(ii)** Which behaviour of light makes day and night possible?

**Ans-** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Q-23.** What is the difference between contact forces and non-contact forces? Give examples.

**Ans-** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Q-24.** Explain how friction is useful for us? Give any two examples.

**Ans-** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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