

O. P. JINDAL SCHOOL, SAVITRI NAGAR

Annual Examination (2023 – 2024)

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

MM:80

Subject: Science

Time: 2 hrs

Name \_\_\_\_\_

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

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

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

**General Instructions:**

- The question paper comprises of five sections A, B, C, D, 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

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**(Section-A)**

**Q1. Tick the correct option-**

(i) When something burns it combines with-

- a) Carbon dioxide      b) Oxygen      c) Nitrogen      d) All of these

(ii) About how much air is nitrogen?

- a). Two fifth      b) Four fifth      c) One third      d) Two fourth

(iii) A soluble substance can be separated from water by

- a) Cooling      b) Condensation      c) Decantation      d) Evaporation

(iv) Which of these is not an alloy?

- a) Steel      b) copper      c) brass      d) All of these

(v) Shadow is smallest at-

- a) Morning      b) Evening      c) Afternoon      d) Noon

(vi) Frosted glass and tracing paper are-

- a) Translucent      b) Opaque      c) Both A and B      d) Transparent

(vii) A unit of length that is equal to 2.54 cm  
a) Kilometres                      b) Meter                      c) Inch                      d) Centimetre

(viii) The amount of matter an object contain  
a) Ton                      b) Millilitre                      c) Mass                      d) Litre

(ix) All bodies pull all other bodies with \_\_\_\_\_ force.  
a) Physical                      b) Magnetic                      c) Gravitational                      d) Electrical

(x) Magnetic force is a \_\_\_\_\_ force.  
a) Non- contact                      b) Chemical                      c) Potential                      d) Electrical

(xi) Matches light because friction produces \_\_\_\_\_.  
a) Gap                      b) Water                      c) Heat                      d) None of these

(xii) Friction act in a direction \_\_\_\_\_ to that of the motion it tries to stop.  
a) Parallel                      b) Negative                      c) Same                      d) Opposite

### (Section-B)

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

Alum is a substance that helps sedimentation. Tie a piece of alum to a string and move it about in the mixture. let the mixture stand. The soil will be settling down at the bottom. After this we can pour the clear water into another glass. This process of separating a liquid from an insoluble substance is called decantation.

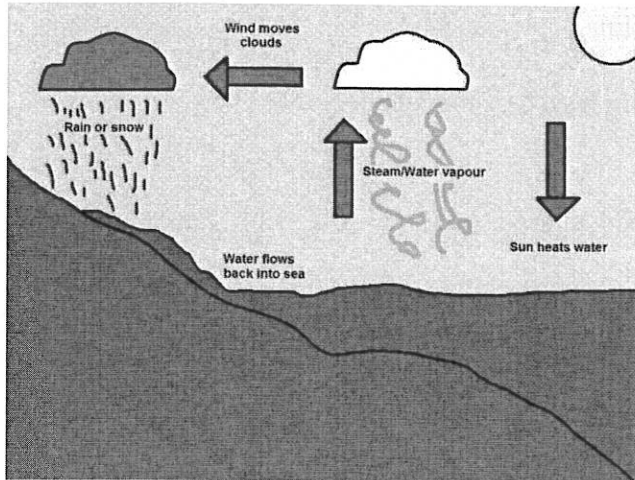
(i) Alum helps in \_\_\_\_\_.  
a) Decantation                      b) Sedimentation                      c) Filtration                      d) All of these

(ii) Process of separating substance from an insoluble substance is called \_\_\_\_\_.  
a) Decantation                      b) Sedimentation                      c) Filtration                      d) All of these

(iii) Settling down soil at the bottom in a mixture is called \_\_\_\_\_.  
a) Decantation                      b) Sedimentation                      c) Filtration                      d) All of these

(iv) This paragraph belongs to the chapter-  
a) Measurement                      b) Light                      c) Mixture and solution                      d) Air

**Q.3 Observe the picture and tick the correct answers. (Case based)-**



- (i) Water vapour in air comes from the \_\_\_\_\_ of water.  
a) Freezing    b) Cooling    c) Condensation    d) Evaporation
- (ii) Tiny droplets of water condense and become \_\_\_\_\_.  
a) Big drops    b) Vapour    c) Rain    d) Cloud
- (iii) Leaves loose water through the \_\_\_\_\_.  
a) Flower    b) Stomata    c) Stem    d) Branches
- (iv) The given picture is of -  
a) Cloud    b) Rain cycle    c) Water cycle    d) Mountain

**(Section-C)**

**Q.4 Write true or false-** (2marks)

- a) Air is transparent- \_\_\_\_\_  
b) Air does not have fixed shape or volume. \_\_\_\_\_

**Q.5 Why are children and elderly affected more by air pollution?** (2marks).

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

**Q.6 Water is an excellent solvent. Write any two uses of it.** (2marks)

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

**Q.7** Fill in the blanks-

(2marks)

- a) Light travels in a \_\_\_\_\_ line.
- b) A \_\_\_\_\_ body allows light to pass through it.

**Q.8** Why do we often say 'weight' when we mean 'mass'?

(2marks)

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

**Q.9** How Many parts does a measurement have? What are they?

(2marks)

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

**Q.10** Mention two uses of magnet in everyday life.

(2 marks)

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

**Q.11 a)** What is force?

(2 marks)

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

b) What is the name of the force with which the earth pulls us ?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Q.12** Why does a ball not continue to roll forever?

(2marks).

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

(Section -D)

**Q.13** Draw the diagram to show uses of air.(Any three)

(3marks)

**Q.14** Draw the diagram to show process of filtration.

(3marks)

**Q.15** How is salt made from sea water?

(3marks)

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

**Q.16** Fill in the blanks-

(3marks)

- a) A moon does not give out light, so it is a \_\_\_\_\_ body.
- b) We see something only when \_\_\_\_\_ coming from it enters our eyes.
- c) Throwing back of light is called \_\_\_\_\_.

**Q.17** Draw any two luminous object and write their name?

(3marks)

**Q.18** Why is it not possible to see a light source that is behind us ?

(3 marks)

Ans \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Q.19** Why do we use units of measurement?

(3marks).

Ans \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Q.20** How does a spring balance work?

(3marks)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Q.21** What is the difference between contact and non contact force? Give one example of each. (3marks)

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

**(Section-E)**

**Q.22.** Which metal is used in common thermometer ? Draw and label the diagram of thermometer. (5marks)

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

**Q.23** Name two metals that are attracted by magnets? Draw and label the diagram of a spring balance. (5marks)

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

**Q.24** What is friction? Draw any three things on which we need to increase the friction .

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