

# CBSE Sample Paper Class 8 Science SA2 Set 3

Time : 3 hrs.

M.M. : 90

Paper is divided in two parts, PART-A and PART-B

In PART-A: Ques.1 to 3 are Very Short Answer Type and carry 1 mark each.

Ques. 4 to 7 are Short Answer Type carry 2 marks each.

Ques. 8 to 19 are Long Answer Type carry 3 marks each.

Ques. 20 to 24 are Very Long Answer Type and carry 5 marks each.

PART-B is Activity based Multiple Choice Questions carries 1 mark each

## PART-A

- Q.1 Define 1 light year?
- Q.2 Which main air pollutant is released by refrigerators and air conditioners?
- Q.3 Name four air pollutants produced by burning of fossil fuels?
- Q.4 A force of 150N is applied to an object of area  $5\text{m}^2$ . Calculate the pressure.
- Q.5 What are ultrasonic sounds? Name 2 animals that produce ultrasonic sounds?
- Q.6 (a) What is meant by chemical effects of electric current?  
(b) List 2 chemical effects of electric current?
- Q.7 Draw a ray diagram to formation of image of a point object in a plane mirror.
- Q.8 How is the sex determined in human beings ? Explain with the help of a flow chart.
- Q.9 Explain why (a) heavy truck is fitted with six to eight wheels ? (b) a sharp knife cut objects more effectively than a blunt knife ?
- Q.10 (a) Define rolling friction and sliding friction?  
(b) Explain why rolling friction is less than sliding friction?
- Q.11 (a) What is meant by streamlined shape?  
(b) Why the bodies of ships and boats are streamlined?
- Q.12 (a) If a simple pendulum makes 30 oscillations in 5 seconds. What is its frequency?  
(b) Define - Loudness and Frequency.
- Q.13 (a) Define electrolysis with its 2 applications.  
(b) Explain why iron objects are electroplated in chromium?
- Q.14 How do you protect yourself from lightning (a) inside the home (b) outside ? (two measures each)
- Q.15 (a) Draw a well labelled diagram of a human eye?  
(b) What is meant by dispersion of light?
- Q.16 In a human eye, what is the function of the following-
- (a) Cornea                      (b) Iris                      (c) Retina

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- Q.17 Write any 3 differences between meteors and meteorites?
- Q.18 What is the importance of ozone layer in atmosphere and explain 2 damaging effects of ozone layer depletion?
- Q.19 Explain the terms (a) biological magnification (b) global warming (c) acid rain.
- Q.20 What is puberty ? What happens at this stage of life ? (2+3)

**OR**

- (a) What are hormones ?
- (b) How do hormones work ?
- (c) Give the name and functions of hormone secreted by pituitary gland. (1+2+2)
- Q.21 What is force ? Explain the four effects, a force can produce, giving relevant examples.

**OR**

“Friction is a necessary evil” Explain by giving 3 advantages and 2 disadvantages of friction.

- Q.22 (a) Draw a well labelled diagram of human ear.
- (b) Give one point of difference between noise and music. (3+2)

**OR**

What is electroplating? Describe the electroplating of copper on an iron spoon with diagram?

- Q.23 What is meant by following phases of the moon:
- (a) new moon (b) crescent moon (c) first quarter (d) gibbous moon (e) full moon

**OR**

Name the following planet(s):

- (a) 2 planets which can be seen by naked eyes.
- (b) smallest and biggest planets of solar system.
- (c) nearest and farthest planets of solar system.
- (d) Whose period of revolution is minimum.
- (e) Whose period of rotation is maximum.
- Q.24 (a) What is a volcano ? How do volcanoes cause earthquake ?
- (b) List any 2 damaging effects of earthquake ?
- (c) What is richter scale ?

**OR**

- (a) Explain any 3 harmful effects of water pollution.
- (b) Write any 4 methods you suggest to control water pollution.

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Q.34 Addition of \_\_\_\_\_ makes the distilled water a good conductor of electricity

- a) glucose      b) alcohol      c) kerosene      d) dil  $\text{H}_2\text{SO}_4$       [   ]

Q.35 The electric charge on a glass rod when it is rubbed with a silk cloth is \_\_\_\_\_

- a) positive      b) negative      c) neutral      d) none of these      [   ]

Q.36 Like charges \_\_\_\_\_ each other.

- a) repel      b) attract      c) move near      d) none of these      [   ]

Q.37 Charged glass rod and ebonite rod each other.

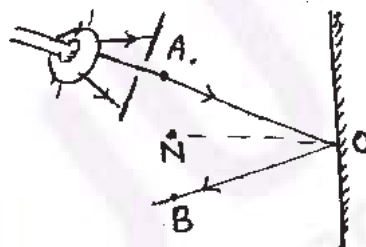
- a) repel      b) attract      c) move away      d) none of these      [   ]

Q.38 The comb is said to be ..... when it is rubbed against dry hair as it acquire electric charge.

- a) electrically charged      b) discharged  
c) uncharged      d) none of these      [   ]

Q.39 In this activity Ray OB is called.

- a) Incident ray      b) Normal  
c) Reflected ray      d) none of these      [   ]



Q.40 In the activity shown above,  $\angle\text{AON}$  and  $\angle\text{BON}$  are

- a)  $\angle\text{AON} > \angle\text{BON}$       b)  $\angle\text{AON} = \angle\text{BON}$   
c)  $\angle\text{AON} < \angle\text{BON}$       d) none      [   ]

Q.41 Blind spot is found \_\_\_\_\_

- a) on retina      b) in iris      c) on lens      d) on pupil      [   ]

Q.42 The beautiful patterns that we obtain in kaleidoscope are because of \_\_\_\_\_ of light.

- a) spectrum      b) dispersion  
c) multiple reflection      d) refraction      [   ]

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## PART-B

Q.25 Which kind of force works when the straw rubbed with paper attracts the suspended straw.

- a) Magnetic force                      b) Electrostatic force
- c) Gravitational force                d) Muscular force [     ]

Q.26 Why the piece of card does not fall while the glass tumbler is inverted and full of water.

- a) the upward atmospheric pressure is greater than downward pressure of water on card.
- b) the upward atmospheric pressure is less than downward pressure of water on card
- c) both of these
- d) none of these

Q.27 By placing pencils as rollers in the activity \_\_\_\_\_

- a) reduces friction                      b) increase friction
- c) increase interlocking                d) all of these [ ]

Q.28 Friction between 2 surfaces is due to its

- a) overlapping                      b) overriding
- c) interlocking                    d) interface [ ]

Q.29 When we stop the ruler from vibrating by touching it with our fingers ,what will happen?

- a) it also stops producing sound      b) it starts producing sound
- c) more sound is produced      d) less sound is produced [      ]

Q.30 Sound is produced by a body.

- a) vibrating                      b) still
- c) stationary                    d) none of these                      [       ]

Q.31 If the rubber bands are very much stretched \_\_\_\_\_ sound is produced.

- a) low pitched                      b) high pitched
- c) some times low and some times high pitched    d) none of these                      [     ]

Q.32 Distilled water is a \_\_\_\_\_ conductor of electricity.

- a) good      b) better      c) poor      d) best      [

Q.33 Addition of salts, acids or bases make distilled water \_\_\_\_\_ conductor of electricity.

- a) good    b) poor
- c) some times good and some times poor      d) none of these [     ]