

CBSE Sample Paper Science Set – A Class 8

Total marks: 90

1. The question paper comprises of two groups A and B. You are to attempt both the groups.
2. All questions are compulsory.
3. There is no overall choice. However, internal choice has been provided in all the four questions of five marks category. Only one option in such questions is to be attempted.
4. All question of group A and all question of group B are to be attempted separately.
5. Question numbers 1 to 10 in group A are one mark questions. These are to be answered in one word or one sentence.
6. Question numbers 11 to 20 are two marks questions to be answered in about 30 words each.
7. Question numbers 21 to 30 are three marks questions, to be answered in about 50 words each.
8. Question numbers 31 to 34 are five marks question to be answered in about 70 words each.
9. Question numbers 35 to 44 in group B are multiple choice questions, based on practical skills. Each question is a one mark question. You are to choose one most appropriate response out of the four provided to you.

Time allotted: 3 hours**Maximum Marks: 90****Section - A**

- 1) What happens, when an ebonite rod rubbed with wool is brought near a positively charged glass rod?
- 2) What do you mean by ignition temperature?
- 3) An object is placed at a distance of 10 cm in front of a plane mirror. How far would its image be formed?
- 4) What causes increase in height of the person during puberty?
- 5) Why does the voice of boys become hoarse during the age of adolescence?
- 6) What is metamorphosis?
- 7) What do you mean by the term phases of moon?
- 8) What are celestial bodies?
- 9) Which plan was made to save river Ganga?
- 10) Name two chemical contaminants of water.
- 11) What is the function of nerve cell?
- 12) Write the full forms of-
 - (a) CNG
 - (b) LPG
- 13) What are inflammable substances?
- 14) What do you mean by lateral inversion? How this phenomenon occurs?
- 15) What is cataract? How this defect can be removed?
- 16) A girl is 13 years old and 135 cm tall. At the end of growth period how much tall will she be?
- 17) What are gametes? Differentiate between sperms and ova.

- 18)** Why is an acid or an ionic salt added to water in the electrolysis of water?
- 19)** Give reason for
- (i) Change in seasons on the earth
 - (ii) Different phases of moon.
- 20)** What is global warming? Write any one harmful effect of global warming.
- 21)** Explain the process of an electric discharge?
- 22)** Write the functions of the following
- a) Mitochondria
 - b) Chromosomes
 - c) Plastids
- 23)** Give reasons-
- (i) LPG is a better domestic fuel than wood.
 - (iii) Water is not used to control fires involving electrical equipment.
- 24)** Define regular and irregular reflection with the help of diagrams.
- 25)** What are the two laws of reflection? Calculate angle of incidence and angle of reflection from the given diagram.
- 26)** When tap water is used as a conducting liquid in the a closed electric circuit, the bulb glows. Why?
- 27)** What is acid rain? How is it formed?
- 28)** Write any three harmful effects of polluted water?
- 29)** Describe the male reproductive organs in brief?
- 30)** How do hormones act to bring about onset of puberty?
- 31)** Explain briefly the process of lightning.

Or,

What are the causes of earthquake? Explain briefly two hazards caused by an earthquake.

32) What are the characteristics of the image formed by a plane mirror? How is the position of image related to the position of the object?

Or,

What is electroplating? How are steel spoons plated with silver? Explain with the help of diagram.

33) What are the characteristics of an ideal fuel?

Or,

Why is CO₂ an excellent fire extinguisher? Draw a diagram of fire extinguisher.

34) Write short notes on the following:

a) Cytoplasm

b) Nucleus

Or,

Differentiate between plant and animal cell.

Section - B

35) A boy stands 50 cm away from a plane mirror. The image will be formed at

(A) 25 cm away from the mirror.

(B) 50 cm away from the mirror.

(C) 100 cm away from the mirror.

(D) 200 cm away from the mirror.

36) When an ebonite rod is rubbed with some piece of flannel, the type(s) of the charges developed on the rod and the flannel is/are

(A) positive charges.

(B) negative charges.

(C) positive and negative charges, respectively.

(D) negative and positive charges, respectively.

37) Tomato is red due to presence of

(A) chloroplast.

(B) vacuole.

(C) plastid.

(D) cell wall.

38) A circular blackish ring on the glass plate indicates

(A) complete combustion.

(B) dark zone of the flame.

(C) non-luminous zone.

(D) luminous zone.

39) The weak current flowing in a circuit can be detected by a

(A) LED

(B) battery.

(C) bulb.

(D) bar of metal.

40) The decomposition of an electrolyte, by passing electricity through it is called

(A) electroplating.

(B) electrolysis.

(C) conduction.

(D) convection.

41) In insects, insect hormones control

- (A) reproduction.
- (B) nutrition.
- (C) respiration.
- (D) metamorphosis.

42) Menstrual flow occurs due to shedding of

- (A) uterine lining.
- (B) ovarian lining.
- (C) fallopian lining.
- (D) vaginal lining.

43) The Taj Mahal is being affected because of

- (A) noise pollution.
- (B) air pollution.
- (C) water pollution.
- (D) sound pollution.

44) The luminous zone of the flame is

- (A) blue zone.
- (B) red zone.
- (C) pale yellow zone.
- (D) orange zone.