

SAMPLE PAPER (TERM-I)
SESSION 2019-20
CLASS VIII
SUBJECT-SCIENCE

Time: 3 Hrs

Maximum Marks: 80

General Instructions:

- (i) The question paper comprises of two sections, A and B. You are to attempt both the sections.
- (ii) All questions are compulsory.
- (iii) All questions of Section-A and B are to be attempted separately.
- (iv) There is an internal choice in three questions of five marks each.
- (v) Question numbers 1 and 2 in Section A are one mark question. They are to be answered in one word or in one sentence.
- (vi) Question numbers 3 to 5 in Section A are two marks questions. These are to be answered in 30 words each.
- (vii) Question numbers 6 to 15 in Section A are three marks questions. These are to be answered in about 50 words each.
- (viii) Question numbers 16 to 21 in Section A are five marks questions. These are to be answered in 70 words each.
- (ix) Question numbers 22 to 27 in Section B are activity based questions. Each question is a two marks question. These are to be answered in brief.

SECTION A

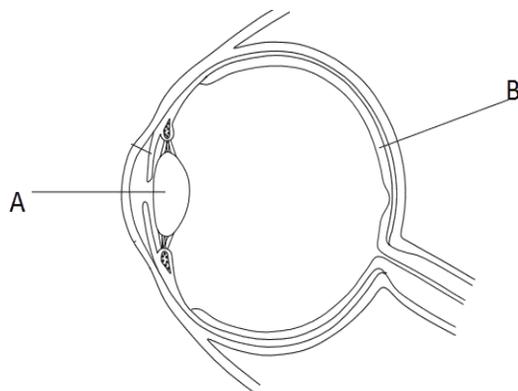
- 1. Name a naturally occurring polymer. What is it made up of? (1)
- 2. Seeds are first grown in nursery and then transplanted to the fields. What is the advantage of this? (1)
- 3. (a) Define force. What is its SI unit? (2)
(b) Why do deep sea animals not survive when brought to the surface of the sea water?
- 4. (a) Write two advantages of using CNG as a fuel. (2)
(b) Name any two constituents of petroleum obtained after refining.
- 5. State the laws of reflection of light. Draw a diagram to show this phenomenon. (2)
- 6. (a) A ball is thrown up in the air. Name the two forces acting on the ball. (1+2=3)
(b) If the area of head is 15cm x 15cm, how much air (in weight) would you carry on your head?
- 7. (a) Define displacement reaction. Explain a displacement reaction with the help of a word (2+1=3)

equation.

(b) Arrange the following metals according to decreasing order of their reactivity:

Zinc, Copper, Iron, Potassium

8. Give reasons for the following: (1x3=3)
(a) We should not let water collect anywhere in the neighbourhood.
(b) Dried neem leaves are used for storing food grains at home.
(c) The role of smaller animals in the ecosystem should not be ignored.
9. (a) Shelly can see her face clearly in a new stainless steel plate but not in old one. What could be the reason for this? (1+1+1=3)
(b) Eyes of the nocturnal birds have large cornea and a large pupil. How does this structure help them?
(c) You are holding a heavy suitcase in your hands. Explain why the forces acting on it do not change the state of motion of the suitcase.
10. (a) Why is petroleum also called as 'black gold'? (1+1+1=3)
(b) Give one difference between thermosetting plastics and thermoplastics.
(c) Why is polyester used to make raincoats and umbrellas?
11. Draw a schematic diagram of nitrogen cycle with appropriate labelling and arrows (3)
12. (a) Explain the working of a ball bearing with the help of a diagram. (2+1=3)
(b) Give two relevant ways to increase the friction giving suitable examples.
13. (a). What is "Project Tiger"? What was the objective of this project? (2+1=3)
(b) Name two endemic flora species of Panchmarhi Biosphere Reserve.
14. (a) Name one thermoplastic used in our daily life. State its one use. (1+2=3)
(b) Write two differences between rayon and natural silk.
15. Seema is suffering from Tuberculosis. Rita, her friend refrained from visiting Seema. (3)
(a) Why did Rita not visit Seema?
(b) Name the causal organism and mode of transmission of the disease.
(c) Write any two general preventive measures for Tuberculosis.
16. (a) What do you understand by persistence of vision of human eye? (1+2+2=5)
(b) Two plane mirrors are placed perpendicular to each other. An incident ray strikes the first mirror at an angle of 43° . What is the angle of reflection of the second mirror?
(Show ray diagram)
- (c) Identify the following parts marked A and B and write one important function of each.



(2+3=5)

OR

- (a) Write two differences between regular and irregular reflection.
 (b) Define dispersion. Make a diagram to show the dispersion through a prism showing seven different colours of a spectrum in proper sequence.

17. (a) State the property of metals which makes them suitable for making

(2+3=5)

- i. jewellery
- ii. strings of musical instruments
- iii. electrical wires
- iv. tin cans

(b) Write word equations for the following:

- i. Zinc granules are added to hydrochloric acid
- ii. Sodium is put in a beaker containing water.
- iii. corrosion of iron

OR

(a) Name the metal/non-metal used

- i. as a protective coat for iron.
- ii. for packaging of food
- iii. as fuel
- iv. in fertilizers.

(b) Write three differences between metals and non-metals on the basis of

- i. Electrical conductivity
- ii. Reaction with acids
- iii. Reaction with water

18. (a) Define deforestation.

(1+2+2=5)

(b) State two beneficial aspects of recycling paper.

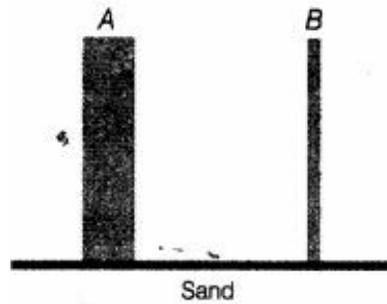
(c) Differentiate between Zoo and Wildlife Sanctuary. (Any two differences)

OR

- (a) Define migration.
- (b) “Deforestation has an adverse effect on the environment.” Justify the statement. (Any two points)
- (c) Differentiate between Wildlife Sanctuary and Biosphere Reserve. (Any two differences)
19. (a) Name any two forces acting on an aeroplane when it is high up in the sky. (1x5=5)
- (b) Write two differences between static and rolling friction.
- (c) Two men tried to push a heavy box and could not succeed. Finally wheels were fitted to the box and now a single could move it. Justify.
- (d) Why do we fall down when we step on a banana peel?
- (e) Give two examples from day to day life where friction causes wear and tear.
20. (a) What are fossil fuels? Explain why fossil fuels are exhaustible natural resources. (2+2+1=5)
- (b) Name two useful products that can be obtained from coal. Write one use of each these products.
- (c) Write two ways to save fuel while driving.
21. (a) “For a good and healthy crop, weeding must be done.” Explain why? (1+2+2=5)
- (b) Why modern methods of irrigation are preferred over traditional methods? Name one traditional and one modern method of irrigation.
- (c) Write two advantages of using seed drill for sowing of seeds.

SECTION B

22. Can a reflected ray be reflected again? Give suitable examples to support your answer. (2)
23. A metal X burns with dazzling light. It turns into a white substance, Y on burning. Water is added to this product to prepare a solution Z. The litmus test is performed to check the nature of the product. (2)
- (a) Identify and name X, Y and Z.
- (b) State the nature of Y.
24. A food stall owner prepared dough for making bhaturas and added a pinch of yeast and sugar to it and left it in a warm place. After few hours, the dough had risen. (2)
- i. Why did the dough rise?
- ii. Why was sugar added to the dough?
25. (2)
- Two pipes of same height are filled with water. They are held vertically on a levelled surface as shown in the figure. Will they have same or different pressure at their bottom? Give reason to support your answer.



26. Riya took two cloth pieces of the same size. She soaked the pieces in different beakers labelled A and B, each containing the same amount of water. After 10 minutes, she took out the pieces from the beakers. She compared the volume of the water remaining in beaker A and B. She observed beaker A has more water than beaker B. (2)
- (a) What was Riya trying to find out?
(b) What do you conclude from the given activity?
27. Bujoho put some gram seeds in a vessel and pour some water on them. After a few minutes some seeds started to float on the top. (2)
- (a) Why these seeds were lighter than those which sank?
(b) Write one application of this observation.