

**SAMPLE PAPER
SESSION 2019-20
CLASS VIII
SCIENCE**

Time: 3 hours

Max 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)** Question numbers 1 and 2 in Section A are one mark questions. They are to be answered in one word or in one sentence.
 - iv)** Question numbers 3 to 11 in Section A are two marks questions. These are to be answered in 30 words each.
 - v)** Question numbers 12 to 17 in Section A are three marks questions. These are to be answered in about 50 words each.
 - vi)** Question numbers 18 to 23 in Section A are five marks questions. These are to be answered in 70 words each.
 - vii)** There is an internal choice in three questions of five marks each.
 - viii)** Question numbers 24 to 29 in Section B are activity based questions. Each question is a two marks question. These are to be answered in brief.
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SECTION – A

- 1. Give another term for fertilized egg. (1)
- 2. There is no fuel that could be considered as ideal fuel. Justify the statement giving two points. (1)
- 3. Define light year. Why does pole star appear to be almost stationary? (2)
- 4. (a) What is blind spot in human eye? (2)
(b) Why do we close our eyes when we move from dim light to bright light?
- 5. What may happen to a plant cell if cell wall and plastids are removed from it? (2)
- 6. (a) Why are bells made up of metals? (2)
(b) Write two properties of metals that are used in making utensils for cooking food.
- 7. (a) Twelve-year old Lila always eats only dal and rice in every meal. She often falls ill and has become prone to diseases. Suggest changes in her diet which can make her healthy and free from diseases. (2)
(b) What are the effects of increased activity of sweat and sebaceous glands?

8. (a) What are metalloids? Give one example. (2)
(b) Name a non-metal which is
i. used to disinfect water
ii. used in fertilisers to enhance growth of plant.
9. (a) How do nerve cells help to control and coordinate the working of different parts of the body? (2)
(b) Write one point of difference between prokaryotic and eukaryotic cell.
10. Water is a commonly used fire extinguisher. Which condition of combustion is eliminated if we use water as a fire extinguisher? State two situations in which water should not be used to extinguish fire. (2)
11. Give reasons for the following: (2)
(a) Female frog lays hundreds of eggs in water.
(b) Reproduction is not necessary for survival even then this process is important for living beings.
12. Draw a neat diagram of a plant cell and label any four parts in it. (3)
13. What is constellation? Explain how you will locate star Sirius with the help of constellation Orion. Support your answer with suitable diagram. (3)
14. (a) How is musical sound different from noise? Write any two measures that you will take as a student to reduce noise pollution. (3)
(b) How does a bird's sound differ from a lion's roar?
15. Write word equations for the following. (3)
(a) Ash obtained on burning magnesium ribbon is dissolved in water.
(b) Zinc granules are added to copper sulphate solution.
(c) Iron filings are added to dilute hydrochloric acid.
16. (a) State any two differences between comets and meteors. (3)
(b) Why do we see only one side of the moon?
(c) Write two distinctive features of the planet Saturn.
17. Give reasons for the following: (3)
(a) Solid NaCl does not conduct electricity but its aqueous solution does.
(b) Bubbles appear near electrodes when electric current is passed through acidified water.
(c) Distilled water is not fit for human consumption.
18. (a) Name one hormone secreted by the following endocrine glands: (2+2+1=5)
i) Pancreas
ii) Adrenal
iii) Thyroid
iv) Pituitary

- (b) State one function of the hormone secreted by the thyroid and adrenal gland.
(c) Define the term 'menopause'.

19. (a) Write an activity to show that sound needs a material medium for propagation. (3+2=5)
(b) Does any part of our body vibrate when we speak? Name the part and explain its working.
20. (a) Aahana wants to electroplate silver on a steel spoon. Draw a well labelled diagram of the set up indicating the material used for each electrode and the electrolyte. (2+2+1=5)
(b) Explain briefly the process of electroplating in the given case.
(c) Write one advantage of electroplating silver on steel spoon.
21. (a) Write two points of differences between LPG & petrol used as fuels. (2+3 =5)
(b) Explain briefly two harmful effects of burning fuels on our environment.

OR

- (a) Certain amount of fuel on complete combustion produces 1,80,000 kJ of energy. If the calorific value of fuel is 80,000 kJ/kg, calculate the amount of fuel consumed.
(b) Describe three zones of a candle flame.
22. (a) Explain with the help of a diagram the phenomenon of lightning between clouds (3+2=5) and the earth.
(b) Write any two precautions that you will take to protect yourself from lightning when you are in the playground.

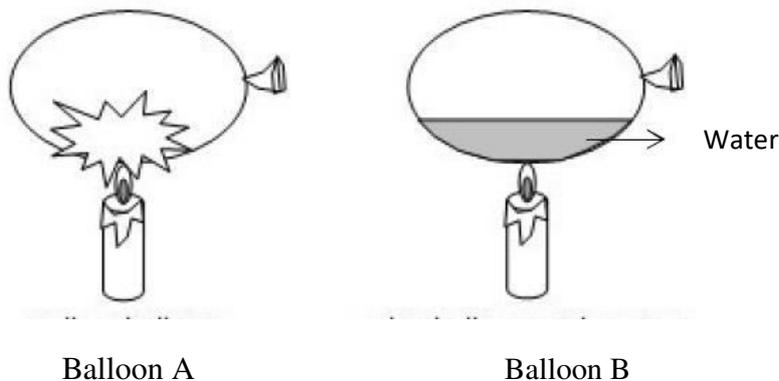
OR

- (a) What is an earthquake? Explain how it occurs.
(b) Write two safety measures that are taken by the architect to make the building quake safe.
23. (a) Draw a neat diagram of human female reproductive system and label any two parts in it. (2+3=5)
(b) Compare the process of binary fission and budding (two points). Give one example each of organisms which reproduce by these methods.
- (a) Name any two parts in the male reproductive system and state any one function of these parts.
(b) (i) Define metamorphosis.
(ii) Can the changes observed in our body as we grow be called as metamorphosis. Justify giving suitable reason. Give two examples of organisms which undergo metamorphosis.

SECTION B

24. Draw the diagram of human cheek cells and label any two parts. (2)
25. Name the stain used in the preparation of onion peel slide. What precaution should be taken while placing the coverslip over the stained peel? (2)

26. Two balloons A and B were inflated. Balloon B was half filled with water (2) while Balloon A did not contain water. Both were placed over a candle flame. It was observed that the balloon A burst instantly while balloon B did not.



- (a) Explain the observation.
(b) What do you conclude from above activity?
27. An electric current is passed through a solution. The magnetic compass placed (2) near the circuit shows deflection.
(a) Name two liquids which when tested cause deflection in magnetic compass.
(b) Will the deflection be same or different for all the conducting liquids? Give a reason for your answer.
28. The distance between an object and its image formed by a plane mirror is (2)
50 cm. How far is the object placed in front of the mirror? Justify your answer.
29. In an electroscope a negatively charged body is touched with metal cap. (2)
Will the position of electroscope strips change? If now another charged object carrying equal amount of positive charge is touched with the metal cap, what will happen to the strips? Give reason in support of your answer.