

**KENDRIYA VIDYALAYA SANGATHAN, HYDERABAD REGION**  
**SAMPLE PAPER 03 FOR SESSION ENDING EXAM (2017-18)**

SUBJECT: SCIENCE

**BLUE PRINT FOR SESSION ENDING EXAM: CLASS VIII**

CHAPTERS	VSA (1 mark)		SA-I (2 marks)	SA-II (3 marks)	LA (5 marks)	Total Marks
	FITB	MCQ				
Force and pressure	1(1)	1(1)	1(2)	1(3)	--	<b>4(7)</b>
Friction	1(1)	1(1)	1(2)	1(3)	--	<b>4(7)</b>
Sound	1(1)	1(1)	1(2)	1(3)	--	<b>4(7)</b>
Chemical effects of electric current	1(1)	1(1)	--	--	1(5)	<b>3(7)</b>
Some natural Phenomena	1(1)	1(1)	1(2)	--	1(5)	<b>4(9)</b>
Light	1(1)	--	1(2)	--	1(5)	<b>3(8)</b>
Stars and solar system	1(1)	1(1)	1(2)	--	--	<b>3(4)</b>
Pollution of air and water	--	1(1)	--	2(6)	--	<b>3(7)</b>
Cell structure and function	1(1)	1(1)	--	--	1(5)	<b>3(7)</b>
Micro organisms	1(1)	1(1)	1(2)	1(3)	--	<b>4(7)</b>
Metals and non metals	1(1)	1(1)	1(2)	2(6)	--	<b>5(10)</b>
<b>Total</b>	<b>10(10)</b>	<b>10(10)</b>	<b>8(16)</b>	<b>8(24)</b>	<b>4(20)</b>	<b>40(80)</b>
<b>FITB – Fill in the Blank, MCQ – Multiple Choice Questions,</b> <b>VSA – Very Short Answer Type Questions, SA –Short Answer Type Questions</b> <b>LA – Long Answer Type Questions</b>						

**Note:** Cell structure and function, Micro-organisms and Metals & Non-metals (30% i.e. 24 marks) of 1<sup>st</sup> term syllabus covering significant topics/chapters have taken as per CBSE guidelines.

**MARKING SCHEME FOR SESSION ENDING EXAM**

SECTION	MARKS	NO. OF QUESTIONS	TOTAL
VSA	1	24	24
SA – I	2	11	22
SA – II	3	8	24
LA	5	2	10
<b>GRAND TOTAL</b>			<b>80</b>

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**SUBJECT: SCIENCE**

**MAX. MARKS : 80**

**CLASS : VIII**

**DURATION : 2½ HRS**

**General Instructions:**

- (i). All questions are compulsory.
- (ii). This question paper contains **30** questions divided into four Sections A, B, C and D.
- (iii). **Section A** comprises **10** Fill in the Blanks Questions and **10** Multiple Choice Questions, each of **1** mark. **Section B** comprises of 8 questions of **2** marks each. **Section C** comprises of 8 questions of **3** marks each and **Section D** comprises of 4 questions of **5** marks each.

**SECTION – A (1 mark each)**

**FILL IN THE BLANKS: (10 MARKS)**

1. \_\_\_\_\_ discovered penicillium.
2. Sodium and \_\_\_\_\_ are soft enough to be cut with a knife.
3. \_\_\_\_\_ is the cell organelle which produces energy by the oxidation of food.
4. 1 kilogram force is equal to \_\_\_\_\_ newtons.
5. Friction is more on a \_\_\_\_\_ surface than on a \_\_\_\_\_ surface.
6. \_\_\_\_\_ is the unit to measure the loudness of sound.
7. When electricity is passed through a liquid, it causes a \_\_\_\_\_ change. This effect is called the \_\_\_\_\_ effect of current.
8. \_\_\_\_\_ was the first person to prove that clouds build up charge during \_\_\_\_\_.
9. Kaleidoscope is based on the principle of \_\_\_\_\_ .
10. The Milky Way galaxy is \_\_\_\_\_ in shape.

**MULTIPLE CHOICE QUESTIONS: (10 marks)**

11. Which bacteria is responsible for fixation of nitrogen?  
(a) Vibrio cholerae                      (b) Rhizobium  
(c) Escherichia coli                      (d) Bacillus typhosus
12. A liquid metal is —  
(a) Nitrogen                      (b) Bromine                      (c) Mercury                      (d) Iodine
13. Chlorophyll is found in —  
(a) Leucoplast                      (b) Chloroplast                      (c) Chromoplast                      (d) Centrosome
14. Weight of a body is measured in  
(a) Kelvin                      (b) Newton/Kilogram force  
(c) Force of gravity                      (d) None of these
15. Ball rolling on the floor stops due to —  
(a) Gravitational force                      (b) Magnetic force                      (c) Muscular force.                      (d) Frictional force.

16. Sound waves travel fastest in —

- (a) Air                      (b) Metals                      (c) Vacuum                      (d) Liquids

17. An electrolytic cell converts

- (a) electrical energy to light energy.                      (b) chemical energy to electrical energy.  
(c) chemical energy to light energy.                      (d) electrical energy to chemical energy.

18. Static electricity charges

- (a) insulators                      (b) conductors                      (c) electrolytes                      (d) all the above

19. The distance travelled by light in one year is

- (a) 780 million km                      (b) 1420 million km                      (c)  $9.46 \times 10^{12}$  km                      (d) 1.58 million km

20. Which air pollutant combines with haemoglobin present in the blood to form carboxy haemoglobin?

- (a) CO                      (b) CO<sub>2</sub>                      (c) HCl                      (d) H<sub>2</sub>S

**SECTION – B (2 marks each)**

21. What makes the dough rise while preparing idli, dosa, bhaturas and dhoklas?

22. Why is it advised not to store pickles and curd in metallic utensils?

23. How does atmospheric pressure vary with altitude?

24. What is noise pollution? State three ways by which noise is produced in homes.

25. What is a natural satellite?

26. Why does an inflated balloon stick to the wall.

27. Why aeroplane's and ship's body is streamlined ?

28. Define dispersion.

**SECTION – C (3 marks each)**

29. What are metalloids ? Give example.

30. What are alloys ?

31. Why is it difficult to walk on a muddy road ?

32. Why do painter use sand papers in white washing the walls and in polishing doors ?

33. As a student and a responsible citizen of the country, list some ways by which you can help to reduce water pollution.

34. Describe the harmful effects of :

- (i) Burning of fossil fuels  
(ii) Depletion of ozone layers  
(iii) Water pollution.

35. Write note on AIDS.

36. Why do we need a medium to make sound travel? Name such mediums and compare their ability to propagate sound.

**SECTION – D (5 marks each)**

37. What is lightning conductor? How does lightning conductor prevent damage to building during lightning?

38. Write a note on chemical effects of electric current.

39. Make a sketch of the human nerve cell. What function do nerve cells perform?. Why are nerve cells long?

40. Distinguish between myopia and hypermetropia. Show with the help of suitable diagrams, how these defects can be corrected ?

