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

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

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

### MARKING SCHEME FOR SESSION ENDING EXAM

<table>
<thead>
<tr>
<th>SECTION</th>
<th>MARKS</th>
<th>NO. OF QUESTIONS</th>
<th>TOTAL</th>
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<tbody>
<tr>
<td>VSA</td>
<td>1</td>
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<tr>
<td>SA – I</td>
<td>2</td>
<td>11</td>
<td>22</td>
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<tr>
<td>SA – II</td>
<td>3</td>
<td>8</td>
<td>24</td>
</tr>
<tr>
<td>LA</td>
<td>5</td>
<td>2</td>
<td>10</td>
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</tbody>
</table>

**GRAND TOTAL 80**
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) 9.46×10\(^{12}\) 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\(_2\)  (c) HCl  (d) H\(_2\)S

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**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?


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**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?