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

SUBJECT: SCIENCE

BLUE PRINT FOR SESSION ENDING EXAM: CLASS VII

<table>
<thead>
<tr>
<th>CHAPTER</th>
<th>FITB</th>
<th>MCQ (1 mark)</th>
<th>QA</th>
<th>SA-I (2 marks)</th>
<th>SA-II (3 marks)</th>
<th>LA (5 marks)</th>
<th>Total Marks</th>
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</thead>
<tbody>
<tr>
<td>Nutrition in plant</td>
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<tr>
<td>Nutrition in animals</td>
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<td>Heat</td>
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<td>Acids Bases &amp; Salts</td>
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<td>Reproduction in Plants</td>
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<td>Light</td>
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<td>Forest: Our Life Time</td>
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<td>Waste Water Story</td>
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<td><strong>8(8)</strong></td>
<td><strong>11(22)</strong></td>
<td><strong>8(24)</strong></td>
<td><strong>2(10)</strong></td>
<td><strong>45(80)</strong></td>
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</table>

FITB – Fill in the Blank,      MCQ – Multiple Choice Questions,   QA – Question Answer
VSA – Very Short Answer Type Questions, SA – Short Answer Type Questions
LA – Long Answer Type Questions

Note: Nutrition in plant, Nutrition in animals, Heat and Acids Bases & Salts (20% i.e. 16 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>
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<tr>
<td>LA</td>
<td>5</td>
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<td>10</td>
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<td><strong>GRAND TOTAL</strong></td>
<td><strong>80</strong></td>
<td><strong>80</strong></td>
<td><strong>80</strong></td>
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</tbody>
</table>
SECTION – A (1 mark each)

MULTIPLE CHOICE QUESTIONS. (8 marks)

1. ______________ is used in starch test.
   (a) Safranin  (b) Blue ink  (c) Iodine  (d) Litmus

2. Which of the acid is secreted in the stomach?
   (a) Hydrochloric acid  (b) Nitric acid  (c) Sulphuric acid  (d) Phosphoric acid

3. Exchange of gases takes place during ______________.
   (a) Respiration  (b) Circulation  (c) Breathing  (d) Transpiration

4. Which of the following carry blood towards heart?
   (a) Arteries  (b) Veins  (c) Capillaries  (d) Aorta

5. Spores are formed by
   (a) Yeast  (b) Spirogyra  (c) Mucor  (d) Rose

6. Which of the following relations is correct?
   (a) Distance = speed/time  (b) Speed = time/distance
   (c) Distance = speed × time  (d) Speed = distance × time

7. Which equipment is not based on heating effect of electric current?
   (a) Electric bulb  (b) Electric oven  (c) Electric iron  (d) Electric kettle

8. A light ray gets refracted towards the normal when it passes from
   (a) Denser to rarer medium  (b) Water to air
   (c) Both a. and b.  (d) None of these
9. FILL IN THE BLANKS. (8 marks)
   (i) The cause of muscle cramp is ________________ respiration.
   (ii) Birds and insects excrete ____________.
   (iii) A body is said to be in ____________ if it covers equal distance in equal interval of time.
   (iv) Full form of LED is ____________.
   (v) ____________ mirrors can be used to see a magnified image of our face.
   (vi) Rain water percolates through different layers of soil by the process of ____________.
   (vii) Saprophytes are also known as ____________.
   (viii) ____________ is a biogas.

10. GIVE ONE WORD ANSWER. (8 marks)
    (i) Nature of saliva produced in our mouth. ____________
    (ii) The oxygen carrying components in blood. ____________
    (iii) The network of very small vessels formed by two different kinds of blood vessels. ____________
    (iv) Asexual reproductive unit protected by thick wall. ____________
    (v) A number of primary or secondary cells arranged in series or parallel formation. ____________
    (vi) An image that can be obtained on a screen. ____________
    (vii) Passing chlorine gas through water to destroy germs. ____________
    (viii) A process of preparing food in plants. ____________

SECTION – B (2 marks each)

11. What is an electromagnet?
12. What is a food web?
13. What is a pH scale? How does it help to identify the nature of a solution?
14. Name the glands associated with digestion.
15. Why does a piece of bread taste sweet on chewing?
16. Why do room heaters have polished reflectors?
17. How is inhaled air different from exhaled air?
18. List the four major components of blood.
19. Differentiate between: Autotrophic and heterotrophic mode of nutrition.
SECTION – C (3 marks each)

22. Discuss the ways of ingesting food by the following animals:

   (i) Frog
   (ii) Hydra
   (iii) Mosquito & butterfly

23. Explain length, oscillation, amplitude and time period with reference to simple pendulum.

24. What is the function of kidney? Name its filtering unit.

25. Why are deep breathing exercises good for health?

26. How does water move up in tall trees?

27. What is water cycle?

28. How is sludge useful after its treatment?

29. Draw a labelled diagram of an electric bell and explain how current flows through it.

SECTION – D (5 marks each)

30. Describe a simple experiment to show that light travels in a straight line.

31. Match the following:

<table>
<thead>
<tr>
<th>Column A</th>
<th>Column B</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Stems</td>
<td>(i) Maple</td>
</tr>
<tr>
<td>(2) Spores</td>
<td>(ii) Yeast</td>
</tr>
<tr>
<td>(3) Bud</td>
<td>(iii) Potato</td>
</tr>
<tr>
<td>(4) Wings</td>
<td>(iv) Rose</td>
</tr>
<tr>
<td>(5) Eyes</td>
<td>(v) Bread mould</td>
</tr>
</tbody>
</table>