# APPENDIX - 5

## SCORING KEY FOR PRE TEST

<table>
<thead>
<tr>
<th>Skills</th>
<th>Activity No</th>
<th>Question No</th>
<th>Answer</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Observation</td>
<td>1</td>
<td>1</td>
<td>b) action</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>1</td>
<td>b) action = -Reaction</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>1</td>
<td>a) Scattered</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>2</td>
<td>b) Not settle down</td>
<td>1</td>
</tr>
<tr>
<td>2. Identification</td>
<td>1</td>
<td>1</td>
<td>Figure (b)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>1</td>
<td>c) Scale</td>
<td>2</td>
</tr>
<tr>
<td>3. Classification</td>
<td>1</td>
<td>1</td>
<td>Fleshy fruit</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Tomato, Banana</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Dry fruit</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bean, paddy, coconut, Date</td>
<td></td>
</tr>
<tr>
<td>4. Measuring</td>
<td>1</td>
<td>1</td>
<td>Pitch scale reading</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Head scale coincidence</td>
<td>2</td>
</tr>
<tr>
<td>5. Inference</td>
<td>1</td>
<td>1</td>
<td>4 points</td>
<td>4</td>
</tr>
<tr>
<td>6. Formulation of Hypotheses</td>
<td>1</td>
<td>1</td>
<td>Weight is inversely proportional to its volume.</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>The tension increases, resonating length decreases</td>
<td>2</td>
</tr>
<tr>
<td>7. Designing Experimented Set - Up</td>
<td>1</td>
<td>1</td>
<td>Principle of momentum experimental setup</td>
<td>4</td>
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<tr>
<td>8. Testing Hypothesis</td>
<td>1</td>
<td>1</td>
<td>Testing Hypothesis through simple experiment</td>
<td>4</td>
</tr>
<tr>
<td>9. Revision of Hypothesis</td>
<td>1</td>
<td>1</td>
<td>S</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td>NS</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td>All quantities except speed are specify them are vector quantity.</td>
</tr>
<tr>
<td>10. Formulation of Generalization</td>
<td>1</td>
<td>1</td>
<td>The change in your position with respect to time is called motion</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>1</td>
<td>Force is that cause which produces acceleration in the body on which it acts</td>
<td>2</td>
</tr>
<tr>
<td>11. Inquiry</td>
<td>1</td>
<td>1</td>
<td>Four relevant questions each question have one mark</td>
<td>4</td>
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</tbody>
</table>
12. Arranging data in a tabulated form

<table>
<thead>
<tr>
<th>S.No</th>
<th>Gas</th>
<th>Velocity MS-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>H₂</td>
<td>1920</td>
</tr>
<tr>
<td>2</td>
<td>N₂</td>
<td>517</td>
</tr>
<tr>
<td>3</td>
<td>O₂</td>
<td>483</td>
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<tr>
<td>4</td>
<td>CO₂</td>
<td>412</td>
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</table>

2 1

<table>
<thead>
<tr>
<th>No</th>
<th>Fruition</th>
<th>Boiling range / °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Gasoline</td>
<td>50-175</td>
</tr>
<tr>
<td>2</td>
<td>Naptha</td>
<td>110</td>
</tr>
<tr>
<td>3</td>
<td>Kerosene</td>
<td>125-250</td>
</tr>
<tr>
<td>4</td>
<td>Diesel</td>
<td>250-350</td>
</tr>
</tbody>
</table>

13. Drawing

1 1 Tomato Figure 4

14. Graphical Representation

1 1 For x-axis 1 For y-axis 1 Pointing & lining 2

15. Interpretation

1 1 Interpretation on velocity of sound is more in solids 2

2 1 Interpretation on velocity of sound affected by temperature 2