THE VILLAGE
INTERNATIONAL SCHOOL
"We Nurture Dreams"

Date:27/10/22 GRADE: VII	MONTHLY TEST - 03 (2022-23) SCIENCE	Max marks: 40 Time: 2 Hours

General Instructions:

1. There are 27 questions in the question paper. All questions are compulsory.
2. From question number 1-16, no need to copy the question. The correct word/phrase should be written as answer.
3. In question number 27 (match the columns) redraw the columns and arrange column B in matching order to column A.

<table>
<tr><td>Qn. No</td><td></td><td>Marks</td></tr>
<tr><td>I</td><td>Choose the correct option</td><td>(10×1=10)</td></tr>
<tr><td>1</td><td>Which of the following is correct about the effects of acid rain. Choose the correct raw.

<table><tr><td></td><td>Acid rain damages the crops</td><td>Acid rain kills aquatic animals</td></tr><tr><td>A</td><td>No</td><td>No</td></tr><tr><td>B</td><td>No</td><td>Yes</td></tr><tr><td>C</td><td>Yes</td><td>No</td></tr><tr><td>D</td><td>Yes</td><td>Yes</td></tr></table></td><td>1</td></tr>
<tr><td>2</td><td>Which compound has the general name "common salt"?
(A) Sodium chloride (B) Sodium hydroxide
(C) Magnesium chloride (D) Magnesium hydroxide</td><td>1</td></tr>
<tr><td>3</td><td>Baking soda turns
(A) turmeric red (C) red litmus blue
(C) purple cabbage juice green (D) all of the above</td><td>1</td></tr>
<tr><td>4</td><td>To neutralize the acids in soil, farmers add _____
(A) HCl (B) $Ca(OH)_2$
(C) NaOH (D) NaCl</td><td>1</td></tr>
<tr><td>5</td><td>The reading on the thermometer kept in a substance is 75^0 C. Heat energy is then removed from it. What could be the new reading on the thermometer?
(A) 75^0 C (B) 90^0 C
(C) 50^0 C (D) 100^0 C</td><td>1</td></tr>
</table>

6	The most commonly used liquid in thermometers used in cold countries is (A) Alcohol (B) mercury (C) chlorine (D) iodine	1
7	The boiling point of water on Fahrenheit scale is _____ (A) 32^0 F (B) 0^0 F (C) 100^0 F (D) 212^0 F	1
8	During night time, the clothes hung on cloth lines of a beach side building facing the sea will fly (A) towards the sea (B) towards the right of the building (C) towards the building (D) towards the left of the building	1
9	A cup of hot tea is kept open on a table. Which process causes the air above the hot tea to get heated? (A) conduction (B) radiation (C) convection (D) evaporation	1
10	_____ coloured clothes are preferred in winter to keep us warm. (A) white and light (B) pastel coloured (C) multi coloured (D) black and dark	1
II	**Fill in the blanks with suitable words.**	**(6×1=6)**
11	Conduction is very fast in _____.	1
12	Heat is transferred from one body to another by conduction, if _____.	1
13	Change of state is one of the effects of _____.	1
14	Temperature is the measure of _____ or _____ of an object.	1
15	An ant bite contains _____ acid.	1
16	A substance that does not change the colour of an indicator is called _____.	1
III	**State whether TRUE or FALSE. If false, rewrite the sentence correctly.**	**(4×1=4)**
17	Strong acids can burn the skin as they are corrosive.	1
18	The boiling point of mercury is lower than that of alcohol.	1
19	Heat energy can be converted into other forms of energy.	1
20	The only kind of heat transfer that involves the actual movement of molecules is radiation.	1

<table>
<tr><td>IV</td><td>Short answer questions</td><td>(3×2=6)</td></tr>
<tr><td>21</td><td>(a) Differentiate between heat and temperature.
(b) Give two important effects of heat.</td><td>2</td></tr>
<tr><td>22</td><td>What is an indicator? Give two examples</td><td>2</td></tr>
<tr><td>23</td><td>List out any four properties of bases</td><td>2</td></tr>
<tr><td>V</td><td>Long answer questions</td><td>(3×3=9)</td></tr>
<tr><td>24</td><td>An acidic substance is mixed with an equivalent amount of basic substance.
(i) What is the reaction called?
(ii) What are the products formed?
(iii) Is there any absorption or release of energy?
(iv) Write the equation representing this reaction</td><td>3</td></tr>
<tr><td>25</td><td>Convert
(i) 37^0 C into ^{0}F
(ii) 212^0 F into ^{0}C</td><td>3</td></tr>
<tr><td>26</td><td>Explain how a thermos flask minimizes loss of heat by conduction, convection and radiation.</td><td>3</td></tr>
<tr><td>VI</td><td>Match the columns</td><td>(1×5=5)</td></tr>
<tr><td>27</td><td>
<table>
<tr><th>A</th><th>B</th></tr>
<tr><td>(a)Gases</td><td>(i)Day time</td></tr>
<tr><td>(b)Radiation</td><td>(ii)Poor conductors</td></tr>
<tr><td>(c)Movement of particles</td><td>(iii)Night time</td></tr>
<tr><td>(d)Sea breeze</td><td>(iv)Vacuum</td></tr>
<tr><td>(e)Land breeze</td><td>(v)conduction</td></tr>
</table>
</td><td>5</td></tr>
<tr><td colspan="3">THE END</td></tr>
</table>

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