

**DAV PUBLIC SCHOOL, POKHARIPUT, BHUBANESWAR.**

**PERIODIC TEST-1, 2021-22**

**SUB: SCIENCE**

**CLASS: VII**

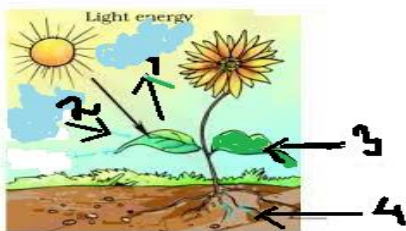
**TIME ALLOWED: 1 HOUR    MAXIMUM MARKS: 40**

**General instructions:-**


- i. All questions are compulsory.
- ii. Each question carries 1 mark.
- iii. Read the statement thoroughly and click the correct option.
- iv. Q no. 1-25 are (MCQ) based questions.
- v. Q no. 26-35 (MCQ) based questions in form of 'fill in the blanks / answer in one word'.
- vi. Q no. 36-37 (MCQ) based questions which are of 'Assertion and reasoning'.
- vii. Q no. 38-40 (MCQ) based questions which are of Case study based.

1	<p>What is the difference between parasite and saprotroph?</p> <p>(a) Parasites feed on dead organic matter and saprophytes feed on living organisms.</p> <p><b>(b) saprophytes feed on dead organic matter and parasites feed on living organisms.</b></p> <p>(c) Parasites share mutual relationship with others whereas saprophytes depend on other living organisms for food.</p> <p>(d) saprophytes share mutual relationship with others whereas parasites depend on other living organisms for food.</p>	1
2	<p>Which of the following is not required for photosynthesis?</p> <p>(a) Sunlight</p> <p><b>(b) Oxygen</b></p> <p>(c) Water</p> <p>(d) Carbon dioxide</p>	1
3	<p>Which of the following statements is/are correct?</p> <p>(i) All green plants can prepare their own food.</p> <p>(ii) Most animals are autotrophs.</p> <p>(iii) Carbon dioxide is not required for photosynthesis.</p> <p>(iv) Oxygen is liberated during photosynthesis.</p> <p>Choose the correct answer from the options below:</p>	1

	<p>(a) (i) and (iv)</p> <p>(b) (ii) only</p> <p>(c) (ii) and (iii)</p> <p>(d) (i) and (ii)</p>													
4	<p>Two organisms are good friends and live together. One provides shelter, water, and nutrients while the other prepares and provides food. What is the association between the organisms termed ?</p> <p>(a) saprophyte</p> <p>(b) parasite</p> <p>(c) autotroph</p> <p>(d) symbiosis</p>	1												
5	<p>I am white and soft. I grow well in the rainy season. People pluck me from the ground . I absorb nutrients from decomposed dead parts of plants and animals in the soil. What is my mode of nutrition?</p> <p>a. autotrophic</p> <p>b. parasitic</p> <p>c. saprotrophic</p> <p>d. melanotrophic</p>	1												
6	<p>Which is the correct statement?K</p> <p>a. the product of photosynthesis is a protein.</p> <p>b. carbon dioxide is released during photosynthesis.</p> <p>c. plants that synthesise their food are called saprotrophs.</p> <p>d. solar energy is converted to chemical energy during photosynthesis.</p>	1												
7	<p>Match the columns and which is the correct option?U</p> <table border="1"> <thead> <tr> <th>Column A</th> <th>column B</th> </tr> </thead> <tbody> <tr> <td>i. carbon dioxide and water</td> <td>A. power</td> </tr> <tr> <td>ii. glucose</td> <td>B. chlorophyll</td> </tr> <tr> <td>iii. sunlight</td> <td>C. raw materials</td> </tr> <tr> <td>iv. energy absorbing pigment</td> <td>D. bacteria</td> </tr> <tr> <td>v. nitrogen</td> <td>E. simple sugar</td> </tr> </tbody> </table>	Column A	column B	i. carbon dioxide and water	A. power	ii. glucose	B. chlorophyll	iii. sunlight	C. raw materials	iv. energy absorbing pigment	D. bacteria	v. nitrogen	E. simple sugar	1
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	<p>a. i:A , ii:B , iii:C , iv:D , v:E</p> <p><b>b. i:C , ii:E , iii:A , iv:B , v:D</b></p> <p>c. i:C , ii:E , iii:B , iv:A , v:D</p> <p>d. i:C , ii:E , iii:A , iv:D , v:B</p>	
8	 <p>Observe the picture .what do the numbers 1, 2, 3, 4 represent?A</p> <p>a. 1: carbon dioxide, 2: oxygen, 3: chlorophyll, 4: water and minerals.</p> <p><b>b. 1: oxygen, 2: carbon dioxide, 3: chlorophyll, 4: water and minerals.</b></p> <p>c. 1: oxygen, 2: carbon dioxide, 3: water and minerals, 4: chlorophyll.</p> <p>d. 1: carbon dioxide, 2: oxygen, 3: water and minerals, 4: chlorophyll.</p>	1
9	<p>The ice boxes are often made as double walled containers because -----.</p> <p>a. double walls are very strong.</p> <p>b. the air trapped between two walls prevents outside heat towards ice.</p> <p>c. double walls conducts heat better than single wall.</p> <p>d. double walls reflects the maximum heat.</p>	1
10	<p>The land and sea breezes are formed due to -----.</p> <p>a. conduction</p> <p>b. convection</p> <p>c. radiation</p> <p>d. conduction and radiation</p>	1
11	<p>The freezer compartment in a refrigerator is usually put near its top. This provides good cooling throughout the refrigerator through -----.</p> <p>a. the good conductivity of air.</p> <p>b. the radiation of heat by the food items kept inside the refrigerator.</p> <p>c. the setting up of convection currents in the air inside the refrigerator.</p> <p>d. transfer of heat by conduction and radiation.</p>	1
12	<p>The water freezes at 0°C and same reading in Fahrenheit scale is -----.</p> <p>a.100°F</p> <p>b. 32°F</p> <p>c.212°F</p> <p>d.98.4°F</p>	1
13	<p>When we hold our hands close to the side of a flame, they get warmed up mainly due to -----.</p> <p>a. conduction</p> <p>b. convection</p>	1

	c. radiation d. conduction as well as convection	
14	What is the range of temperature scale in a clinical thermometer? a. 0° C to 30° C b. 0°c to 100° C c. -10° C to 110° C d. 35° C to 42° C	1
15	An steel ball at 60 °c is dropped in a mug containing water at 60 °c. The heat will (a) flow from water to steel ball (b) increase the temperature of both to 120° c (c) not flow from steel ball to water or water to steel ball . (d) flow from steel ball to water.	1
16	The phenomena by which the particles of the medium collect heat from the source and carry this heat to the other parts by moving away is ----- a. Conduction b. convection c. radiation d. all processes of heat transfer.	1
17	The chemical formula of aluminium oxide is ----- a. Al <sub>2</sub> O <sub>3</sub> b. Al <sub>3</sub> O <sub>2</sub> c. Al <sub>2</sub> O d. AlO <sub>2</sub>	1
18	Identify the balanced chemical equation . a. H <sub>2</sub> + O <sub>2</sub> → H <sub>2</sub> O b. 2Na + Cl <sub>2</sub> → 2NaCl c. N <sub>2</sub> + H <sub>2</sub> → NH <sub>3</sub> d. Cu + AgNO <sub>3</sub> → Cu(NO <sub>3</sub> ) <sub>2</sub> + Ag	1
19	which is a pure substance? <b>(a)</b> air <b>(b)</b> soil <b>(c)</b> lemonade <b>(d)</b> oxygen	1
20	Identify the decomposition reaction from the following reactions. a. CaO + SiO <sub>2</sub> → CaSiO <sub>3</sub> b. Cu + 2AgNO <sub>3</sub> → Cu(NO <sub>3</sub> ) <sub>2</sub> + 2Ag c. BaCO <sub>3</sub> → BaO + CO <sub>2</sub> d. C + O <sub>2</sub> → CO <sub>2</sub>	1
21	The chemical formula for sodium carbonate is-----. a. Na <sub>2</sub> CO <sub>3</sub> b. Na(CO <sub>3</sub> ) <sub>2</sub> c. NaHCO <sub>3</sub> d. NaCO <sub>3</sub>	1

22	<p>In the chemical reaction, <math>\text{Fe} + \text{CuSO}_4 \rightarrow \text{FeSO}_4 + \text{Cu}</math> ,  What is the colour of iron sulphate solution ?</p> <ol style="list-style-type: none"> <li>yellow</li> <li>blue</li> <li>green</li> <li>violet</li> </ol>	1
23	<p><math>\text{Mg}(\text{OH})_2 + \text{H}_2\text{SO}_4 \rightarrow \text{MgSO}_4 + 2 \text{H}_2\text{O}</math>  Identify the salt in this reaction.</p> <ol style="list-style-type: none"> <li><math>\text{Mg}(\text{OH})_2</math></li> <li><math>\text{H}_2\text{SO}_4</math></li> <li><math>\text{MgSO}_4</math></li> <li><math>\text{H}_2\text{O}</math></li> </ol>	1
24	<p>In the chemical reaction, <math>\text{Cu} + 2 \text{AgNO}_3 \rightarrow \text{Cu}(\text{NO}_3)_2 + 2\text{Ag}</math> ,  choose the correct option from the following.</p> <ol style="list-style-type: none"> <li>copper displaces silver from silver nitrate solution.</li> <li>copper displaces nitrate from silver nitrate and takes its place</li> <li>silver displaces copper to form silver nitrate</li> <li>silver displaces copper to form copper ions.</li> </ol>	1
25	<p>Which of the following is not an ion/radical?</p> <ol style="list-style-type: none"> <li><math>\text{Na}^+</math></li> <li><math>\text{SO}_4^{2-}</math></li> <li><math>\text{CO}_2</math></li> <li><math>\text{CH}_3\text{COO}^-</math></li> </ol>	1
26	<p>In the picture , it is depicted that microbes make nutrients available to the plants by converting the organic substances into inorganic forms through a process called -----.</p>  <ol style="list-style-type: none"> <li>fertilisation</li> <li>mineralisation</li> <li>nutrition</li> <li>absorption</li> </ol>	1
27	<p>The tiny pores present on the surface of leaves are called -----.</p> <ol style="list-style-type: none"> <li>guard cells</li> </ol>	1

	<p>b. chlorophyll  <b>c. stomata</b>  d. granules</p>	
28	<p>----- is the plant nutrient that contains, carbon, hydrogen and oxygen along with nitrogen and other elements.  <b>a. protein</b>  b. carbohydrate  c. fatty acid  d. mineral</p>	1
29	<p>Some fungi live in the roots of the trees, take food from the trees and in return help the trees in absorbing water and nutrients from the soil. This relationship is called -----.  a. parasitic  b. saprotrophic  <b>c. symbiotic</b>  d. heliophytic</p>	1
30	<p>Fill in the blanks by choosing the correct option.  The convection currents in air transfer heat -----.  <b>a. downward</b>  <b>b. upward</b>  c. downward as well as upward  <b>d. sideways</b></p>	1
31	<p>Find a suitable keyword for “the mode of transfer of heat in a medium in which heat moves from molecule (particle) to molecule (particle) without any actual movement of the molecules (particles)”.  a. Conduction  b. b. convection  c. radiation  d. either convection or radiation.</p>	1
32	<p>Fill in the blanks by choosing the correct option.  The “kink” is present in ----- thermometer.  a. digital  b. doctor’s  c. laboratory  d. maximum and minimum</p>	1
33	<p>Fill in the blanks by choosing the correct option.  The symbol used to represent Iron is -----.  a. I  b. Ir  c. Fe  d. F</p>	1
34	<p>Fill in the blanks by choosing the correct option.  Acid + base <math>\rightarrow</math> ----- + -----.</p>	1

	<p>a. salt and gas  b. gas and water  c. salt and alcohol  d. salt and water</p>	
35	<p>Find a suitable keyword for “the material made up of two or more substances which are mixed together in any ratio but are not chemically combined”.</p> <p>a. pure substance  b. mixture  c. compound  d. element</p>	1
36	<p>Assertion(A): In extracellular digestion, the organisms secrete digestive juices directly on the food.  Reason (R): digestive juices make the food soluble and organisms directly absorb it.</p> <p>a. A is true , R is true and the R is the correct explanation of A.  b. A is true , R is true and the R is not the correct explanation of A.  c. A is true, R is false.  d. A is false, R is true.</p>	1
37	<p>Assertion:- The heat of the sun does not reach to us either by conduction or by convection.  Reason:- Conduction and convection both require a material medium for transfer of heat and there is mostly empty space or vacuum between sun and the earth.</p> <p>a.Both Assertion and Reason are correct and Reason is the correct explanation for Assertion  b.Both Assertion and Reason are correct but Reason is not the correct explanation for Assertion  c.Assertion is correct but Reason is incorrect  d.Assertion is incorrect but Reason is correct</p>	1
38	<p>Akshit is a talented student who visited Rishikesh for river rafting during summer holidays. At a campsite, there were two tents, one made with black fabric and the other with a white fabric. Akshit has chosen the white fabric tent to stay during his visit.  Akshit had preferred the white fabric tent because -----.</p> <p>a. White colour is his favorite colour .  b. Black objects reflects heat better than white objects.  c. White objects absorbs very little amount of radiant energy falling on them.  d. White colour fabric makes the tent more warmer.</p>	1
39	<p>Every year after harvesting paddy crops in the field , Ramu did not grow any crops in his field. His nephew Ritesh advised his uncle Ramu to grow some crops in the field which could benefit Ramu in two ways. Ramu was</p>	1

	<p>not in favour of using chemical additives .Ritesh got this information after getting the knowledge on 'nutrition in plants'.</p> <p>What are the two ways of benefits in this case?</p> <p>a. nutrition replenishment, additional crop yield.</p> <p>b. nutrition contamination, fertiliser availability</p> <p>c. nutrition replenishment, fertiliser availability</p> <p>d. nutrition depletion, crop rotation</p>	
40	<p>Rusting happens on the surface of iron objects making it coarse and flaky. Rusting is a type of Chemical Change. It results in the formation of Iron Oxide which is an entirely new substance. It also makes the iron objects fragile. Rusting happens quicker in a humid environment. As a result, it is easier for water tanks and pipes to get rusted. Therefore, various methods are used to reduce the effect of rusting.</p> <p>The rusting of iron happens in -----.</p> <p>a. the presence of oxygen only.</p> <p>b. the presence of water only.</p> <p>c. the presence of oxygen(air) and moisture both.</p> <p>d. the presence of heat only.</p>	1