

DAV PUBLIC SCHOOL, POKHARIPUT, BHUBANESWAR-20

PERIODIC MASSESSMENT-1

CLASS-VIII

Science & Technology


Time-1 Hour

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.

Sl No.	Question	Mark												
1.	Which is not a correct statement for fertilizer? A. Fertiliser is an inorganic salt. B. Fertilizer is very rich in specific nutrients like nitrogen, phosphorus and potassium. C. Fertilizer provides a lot of humus to the soil. D. Fertilizer becomes a source of water pollution.	1												
2.	The practice of cultivating and healthy growing of tomato, chilly and brinjal plants is called -----. A.translocation B. transportation C. transpiration D. transplantation	1												
3.	Match the columns correctly. Which is the correct option? <table border="1"><thead><tr><th>Column A</th><th>Column B</th></tr></thead><tbody><tr><td>1. Harvesting and reaping the crops</td><td>A. Combine</td></tr><tr><td>2. Cutting and gathering of mature crops</td><td>B. Tolerate standing water</td></tr><tr><td>3. Cutting standing crops and recovering the grains</td><td>C. Enriching the soil.</td></tr><tr><td>4. Paddy crop</td><td>D. Harvesting</td></tr><tr><td>5. pea, bean, ground nut crops</td><td>E. Sickle</td></tr></tbody></table> A. 1: E , 2: D , 3: A , 4: B , 5: C B. 1: E , 2: D , 3: B , 4: A , 5: C C. 1: E , 2: D , 3: A , 4: C , 5: B	Column A	Column B	1. Harvesting and reaping the crops	A. Combine	2. Cutting and gathering of mature crops	B. Tolerate standing water	3. Cutting standing crops and recovering the grains	C. Enriching the soil.	4. Paddy crop	D. Harvesting	5. pea, bean, ground nut crops	E. Sickle	1
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	D. 1: E , 2: A , 3: D , 4: B , 5: C	
4.	<p>Which option does not relate to the given picture?</p>  <p>A. It makes the soil loose and improves air circulation. B. It facilitates the roots to penetrate easily into the soil. C. It deteriorates the circulation of air in the soil. D. It allows the growth of microorganisms and earthworms.</p>	1
5	<p>Which of the following forces are contact forces?</p> <p>a. force of gravity and force of friction. b. force of friction and magnetic force . c. force of friction and muscular force. d. electrostatic force and magnetic force .</p>	1
6	<p>The syringe works on the existence of -----.</p> <p>a. liquid pressure b. atmospheric pressure c. solid pressure d. both liquid and solid pressure.</p>	1
7	<p>A force of 200 N is applied to an object of area 4 m². The pressure is -----.</p> <p>a. 200 pascals. b. 100 pascals c. 50 N d. 50 pascals</p>	1
8	<p>Pins have pointed ends. This results in a -----</p> <p>a. decrease in the force exerted on them b. decrease in the effect of the force exerted on them. c. increase in the force exerted on them. d. an increase in the effect of the force exerted on them.</p>	1
9	<p>On placing an inverted tumbler over a burning candle, the flame extinguishes after some time. This is because of non-availability of -----.</p> <p>a. oxygen b. water vapour c. carbon dioxide d. wax.</p>	1


10	Rohan was cooking potato curry on a chullha. To his surprise he observed that the copper vessel was getting blackened from outside. It may be due to-----. a. complete combustion of fuel . b. improper cooking of potato curry. c. incomplete combustion of fuel . d. burning of copper vessel.	1
11	The calorific value of fuel is expressed in a unit called a. kilojoule per litre. b. kilogram per millilitre. c. kilojoule per meter. d. kilojoule per kilogram.	1
12	In a burning candle, the partial combustion of wax vapours takes place in ----- of the flame. a. innermost zone b. middle zone c. outermost zone d. both in middle and outermost zone	1
13	When a small piece of white phosphorous or sodium is kept in air for sometime; it suddenly catches fire. It is a ----. a. slow combustion b. rapid combustion c. explosive combustion d. spontaneous combustion	1
14	We can also boil water in a paper cup, on a spirit lamp. It is possible because -----. a. paper is a combustible material. b. water gives oxygen to support boiling. c. the heat energy supplied to the paper cup rapidly passes on to water. d. water is a non-combustible material.	1
15	Identify the slow combustion process from the following. a. bursting of crackers when ignited. b. burning of wood c. Burning of Liquefied petroleum gas. d. a piece of sodium catches fire when kept in air.	1
16	Which of the following is not a characteristics of a good fuel ? a. have a high calorific value b. have very low ignition temperature, which is below	1

	<p>room temperature.</p> <p>c. undergo complete combustion.</p> <p>d. easy to store and easy to transport.</p>	
17	<p>A small icy object that orbits the sun and develops a long bright tail when it passes near the sun is called -----.</p> <p>a. Geostationary satellite</p> <p>b. Comet</p> <p>c. Meteor</p> <p>d. asteroid</p>	1
18	<p>Uranus is observed to have blue- green colour because of --- ---</p> <p>a. presence of methane gas in its cold, clear atmosphere.</p> <p>b. More iron oxide in its surface.</p> <p>c. Excessive water in it.</p> <p>d. Hydrogen and helium gases</p>	1
19	<p>Which of the following is the hottest planet of our solar system ?</p> <p>a. Mercury</p> <p>b. Earth</p> <p>c. Jupiter</p> <p>d. Venus</p>	1
20	<p>The shape and size of bright side of moon appears to change gradually everyday because of -----.</p> <p>a. The moon does not reflect sunlight at all.</p> <p>b. Different parts of moon emits light in different time.</p> <p>c. changes in relative position of the earth, the sun and the moon.</p> <p>d. It moves from east to west.</p>	1
21	<p>Assertion:- Anita wants to boil water quickly in a test tube. On observing the different zones of the flame, she has decided the non- luminous zone of the flame will be the best for it.</p> <p>Reason:- The non luminous zone is the complete combustion zone and is also the hottest zone.</p> <p>a. Both Assertion and Reason are correct and Reason is the correct explanation for Assertion</p> <p>b. Both Assertion and Reason are correct but Reason is not the correct explanation for Assertion</p>	1

	<p>c. Assertion is correct but Reason is incorrect</p> <p>d. Assertion is incorrect but Reason is correct</p>	
22	<p>Assertion :- The aircrafts have pressurised cabins to safeguard the passengers and the crew.</p> <p>Reason :- When we move upward through the atmosphere i.e towards higher altitude , there is a decrease in the air pressure.</p> <p>a. Both Assertion and Reason are correct and Reason is the correct explanation for Assertion</p> <p>b. Both Assertion and Reason are correct but Reason is not the correct explanation for Assertion</p> <p>c. Assertion is correct but Reason is incorrect</p> <p>d. Assertion is incorrect but Reason is correct</p>	1
23	<p>Assertion:- The submarines are always built with very thick and heavy metals.</p> <p>Reason :- The heavy metals will not be corroded easily and also they will sink easily into the ocean floor.</p> <p>a. Both Assertion and Reason are correct and Reason is the correct explanation for Assertion</p> <p>b. Both Assertion and Reason are correct but Reason is not the correct explanation for Assertion</p> <p>c. Assertion is correct but Reason is incorrect</p> <p>d. Assertion is incorrect but Reason is correct</p>	1
24	<p>Read the statements given under Assertion and Reasoning.</p> <p>Assertion(A):In broadcasting method, seed distribution is even and uniform.</p> <p>Reason (R): In broadcasting method, the germination of seed is not uniform.</p> <p>Choose the correct option.</p> <p>A. Both Assertion and Reason are correct and Reason is the correct explanation for Assertion.</p> <p>B. Both Assertion and Reason are correct but Reason is not the correct explanation for Assertion.</p> <p>C. Assertion is correct but Reason is incorrect.</p> <p>D. Assertion is incorrect but Reason is correct.</p>	1
Q. 25 to 28	<p>Fire is useful as well as harmful. We make a small fire in a gas stove to cook our food. This is a useful fire and without fire we cannot cook food. But when a fire breaks out in a</p>	

	<p>house, an office, a factory, an oil tanker, a petrol pump or an electrical equipment, then the fire is harmful. It causes loss of life and property. Such fires must be brought under control and extinguished at the earliest. This is fire fighting. Every city and town has a fire service in the form of fire Brigade station. The fire fighters of fire brigade specialise in putting out fires. Everyone must know the fire service number of your city for any emergency and also the how fire is caused and the different ways of putting off fire.</p>	
25	<p>A fire caused by oil or gas can be extinguished by</p> <ol style="list-style-type: none"> By putting water by using carbon dioxide extinguisher by supplying oxygen cut off the supply of electricity. 	1
26	<p>Which of the following is not a condition of the principle of fire fighting?</p> <ol style="list-style-type: none"> stop the supply of combustible material stop the supply of water stop the supply of air (oxygen) temperature of combustible material is lowered than its ignition temperature. 	1
27	<p>If a person's cloth catches fire, the best way to extinguish fire is to -----.</p> <ol style="list-style-type: none"> throw sand and water on the clothes. use fire extinguisher. cover the person with a polythene sheet. cover the person with a woollen blanket. 	1
28	<p>Water should not be used to extinguish fire caused by electric short circuits because</p> <ol style="list-style-type: none"> it will increase ignition temperature of burning materials. It may cause dangerous electric shock. it may supply oxygen to burn faster. water itself is a combustible material 	1
Q. 29 to 30	<p>In the game tug of war , two teams of persons pull at a rope in opposite directions. Members of both the teams try to pull rope in their direction. When the two teams pull the rope equally hard (by applying equal forces), the rope does</p>	

	not move in any direction. At this point of time, the two teams are applying equal but opposite forces to the rope due to which the net force acting on the rope is zero and hence the rope does not move. Ultimately the team which pulls the rope harder by applying greater force wins the game.	
29	Two boys A and B are applying force on a block from opposite sides. If the block moves towards the boy A, which one of the following statements is correct? (a) Magnitude of force applied by A is greater than that of B. (b) Magnitude of force applied by A is smaller than that of B. (c) Net force on the block is towards B. (d) Magnitude of force applied by A is equal to that of B.	1
30	When the two forces applied on an object are equal and opposite, then the forces ----- a. May move the object b. may stop a moving object c. may move the object and also cause a change in its shape. d. do not move the object but may cause a change in its shape.	1
31	In a tug of war, side A applies 15N of force and side B applies 10N of force. Which side will the rope move ? a. In the direction of B b. In the direction of A c. The rope will not move in any direction. d. It can not be predicted.	1
32	Which of the following is not an effect of force? a. force can change the speed of an object. b. force can change the direction of moving object. c. force can change the shape and size of the object. d. force can change the composition of moving object.	1
33 to	(Q.No. from 33 to 36.)	

36	<p>Irrigation is the lifeline of Agriculture. It reduces the vulnerability of the farmers to the vagaries of monsoon and also increases productivity and income through multiple crops. Keeping this in view, a good number of need based irrigation schemes and projects have been introduced. Moreover, Government has taken strategic steps like bringing separate agriculture budget, separate agriculture cabinet, special farmer centric plans, etc. Irrespective of such good planning, farmer are facing acute water problem for agriculture. Vast areas remain uncropped in rabi season. Supplementary irrigation during kharif is also not sufficient. It looks planning in the right direction. But, effective implementation and monitoring of ongoing and upcoming schemes and projects has to be strictly undertaken for agricultural development. Widespread denudation and accelerated erosion diminish the productivity of both cultivated and grazed rain-fed lands. Especially vulnerable are semi-arid regions to climatic instability and frequent droughts. At the same time, depletion and pollution of limited freshwater resources and competing demands for water among neighbouring states as well as between different sectors within each state constrain the further expansion of irrigation. The crops grown in sandy soil need irrigation more frequently in comparison to crops grown in clayey soil. The modern methods of irrigation are adopted to use water economically.</p> 	
33.	<p>Which statement is not correct in case of irrigation? A.irrigation is the method to supply water to crop plants. B.irrigation makes the soil soft and productive. C. irrigation makes the nutrients not available to get absorbed by the roots. D.irrigation protects the crop plants from hot air currents and frost.</p>	1
34	<p>Sprinkler system is used when the _____. A .land is even and acquires only little water. B. land acquires sufficient supply of water.</p>	1

	<p>C .land is uneven and sufficient water is not available. D .land requires irregular supply of water.</p>	
35	<p>If you had a small field and you want to use the most inexpensive method of irrigation, which method would you suggest? A. Moat B. Drip system. C. Sprinkler system. D.Rahat system</p>	1
36	<p>In relation to the above situation for bringing special farmer centric plans,the construction of big dams may lead to _____. A.droughts. B.remove poverty. C. canal network D. forestation</p>	1
37 to 40	<p>When the crops mature, the field turns golden yellow and the sight of the golden fields with ripen standing crops laden with grains made the farmers joyful. This occasion is celebrated as festivals in different parts of India. But after that, the food grains need safe storage. By following correct agricultural practices, the production of grains can be increased. So different ways of improving crop yield practices were practised. Read the situation given in the above text and anser the question No, 37, 38, 39, 40 accordingly.</p>	
37	<p>For safe storage the grains are dried. Which is not the reason for adopting the process of drying. A. To reduce the moisture content. B. To prevent spoilage of grains. C. To reduce their yielding capacity. D. To prevent the growth of fungus and mould.</p>	1
38	<p>Which is not the correct statement with respect to storing of grains at home? A. dried neem leaves are used to store grains. B. dried food grains can be stored in metal bins and gunny bags. C. specially designed silos with inbuilt arrangement are used to store grains. D. Grains are dried in sunshine before storing.</p>	1

39	<p>Which is not the correct statement with respect to green revolution?</p> <p>A. Green revolution was brought in India in 1960.</p> <p>B. It mainly focussed to provide food to all in the ever increasing population scenario.</p> <p>C. New varieties of crops were developed by cross breeding.</p> <p>D. Traditional technology supercedes the new package of practices.</p>	1
40	<p>_____ is the government agency that deals with large scale safe storage of grains with well protected and well-designed silos and the distribution.</p> <p>A. Food Corporation of India.</p> <p>B. Agricultural University.</p> <p>C. Central Research Institute.</p> <p>D. Food Processing Unit</p>	1