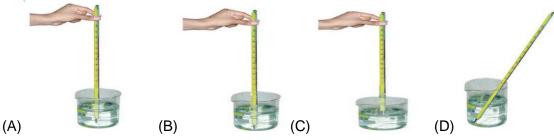
## class 7 Practice Paper [Science] - Olympiad



1. The jelly-like substance that surrounds the nucleus is called (A) Nucleus (B) Cell membrane (C) Cytoplasm (D) Chloroplast 2. The purpose of scale like or spin like leaves in the deserted plants is responsible for (A) Reduce loss of water by transpiration (B) Increase the rate of photosynthesis (C) Increased transportation of water throughout the plant. (D) Adjust in less space. 3. Addition of nitrogenous fertilizers replenishes the soil with adequate amount of nitrogen. But cultivation of plants like Pulses, green gram, Bengal gram, black gram, etc don't require addition of much external fertilizers because: (A) These plants shares symbiotic relationship with Rhizobium that converts atmospheric nitrogen and replenishes the soil. (B) These plants do not require nitrogen as nutrient. (C) these plants can produce nitrogen by themselves and can replenish the soil. (D) None of these 4. To the starch solution, small amount of saliva is added, then few drops of another sample X is added the color of the mixture turns into blue black. Identify the solution X, which changed color of the starch solution? (A) HCI (B) Iodine Solution (C) H<sub>2</sub>SO<sub>4</sub> (D) Salt Solution 5. A person is with Choledocholithiasis refers to the presence in his gall bladder. Which components of food are difficult for him to digest? (A) Fats (B) Carbohydrates (C) Proteins (D) Vitamins 6. Deficiency of which of the following component related to digestive system is responsible for Diabetes? (A) Insulin (C) Hydrochloric acid (D) none of these (B) Bile juice 7. Material commonly used for making non-stick cookware is: (A) PVC (B) Acrylic (C) Teflon (D) PET 8. What is used instead of mercury in digital thermometer? (A) Thermoresistor (B) Nitrogen (C) Alcohol (D) Water 9. Which thermometer should be used to measure the temperature of a chemical reaction? (B) Maximum Thermometer (A) Laboratory Thermometer (C) Digital Thermometer (D) Clinical Thermometer 10. What is the correct way to use a laboratory thermometer?



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1. When a petal of China rose is placed in a solution X, the color of the petal changes into dark pink. But when a petal of China rose is placed into solution Y, it turned into green. Identify the nature of solutions X and Y.				
(A) X= acid; Y= base (B) X= base; Y= acid (C) X= base; Y= neutral (D) X= neutral; Y= acid				
12. Raman is a farmer. For the past three months the yield of crops was not that good on testing the soil, the expert prescribed him to add ammonium sulphate to the soil in order to receive high yield of crops. What was the nature of the soil of his field?				
(A) Acidic (B) Neutral (C) Basic (D) none of them				
13. which of the following is a characteristic associated with all Chemical changes?  (A) It involves change in state and temperature.				
(B) It involves change in shape.				
<ul><li>(C) The change can be reversed.</li><li>(D) It involves the formation of a new substance.</li></ul>				
14. A student reacted Mg with HCl. When he brought a matchstick close to the mouth of the test tube it burns				
with a pop sound what could have been the reason?				
(A) Production of Hydrogen. (B) Production of carbon dioxide.				
(C) Production of chlorine (D) Presence of hydrochloric acid				
15. Which of the following is not a characteristic of the species adapted to cold climate?				
(A) Thick and white fur (B) Layer of fats under the skin				
(C) Wide and large paws (D) Large ears				
16. Which of the following is the characteristic of red eyed frog found in tropical rainforest?				
(A) Sticky pads on their feet. (B) Long tail.				
(C) Paws on their feet. (D) Thick skin				
17. Which of the following is not the characteristic of lion tailed macaque?				
(A) Presence of silver white mane. (B) Feeds on fruits and seeds.				
(C) Feeds on insects found in the bark of trees. (D) Strong sense of smell and large ears.				
18. The reason for circulation of wind from the poles to the warmer latitudes is:				
(A) Uneven heating of land and water				
<ul><li>(B) Uneven heating between the equator and the poles</li><li>(C) Decrease in atmospheric pressure near the latitudes</li></ul>				
(D) Increase in atmospheric pressure near the latitudes				
19. The rotting dead matter in the soil is called				
(A) Humus (B) Protein (C) Bedrock (D) Topsoil				
20. Let the time taken for 100 mL of water to percolate be 50 minutes. Then calculate the rate of percolation.				
(A) 1 mL/Min (B) 2 mL/Min (C) 5 mL/Min (D) 3 mL/Min				
21. Yeast is the primary component in the beer and wine industry because:				
(A) It is a bacteria. (B) It yields alcohol.				
(C) It produces carbon-dioxide during respiration (D) None of these				

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22.	(A) Hemoglobin	due to (B) Platelets	(C) WBC	(D) Cytosine
23.	Rohan got injured and started bleeding. But after sometime the bleeding stopped with a hard red layer over the injury. Her mom said that it was a blood clot. Which of the following circulatory component is responsible for this?			
	(A) Hemoglobin	(B) Cytosine	(C) Platelets	(D) WBC
24.	The transfer of pollen gra (A) Fertilization	ains from the anther of (B) Self-pollination	a flower to the stigma (C) Fission	of the same flower is called (D) Fusion
25.	Raman walks a distance of 3 km from his house in 30 minutes and comes back walking in 20 minutes. His average speed in km/h is			
	(A) 7.2	(B) 8	(C) 10	(D) 5
26.	A student made the following setup using a new bulb, conducting wires, and a 3V battery but the bulb did not glow. Identify the reason.			
	Copper Plate  Electrolytic Solution	Wooden Board		
	<ul><li>i. Bulb is fused</li><li>ii. Copper plate is rus</li><li>iii. Use of wooden bo</li></ul>			
	(A) (i) and (ii) only	(B) (iii) only	(C) (i) and (iii) only	(D) any of (i), (ii) and (iii)
27.	A student tried to get the (A) Virtual, erect and (C) Real, erect and e	enlarged.	ox using a convex mirr (B) Virtual, erect and (D) Virtual, inverted a	
28.	The distance between th (A) 2m	e image and the object (B) 1m	et placed at a distance (C) 0.5m	of 1m in front of a plane mirror will be: (D) 0.25m
<ul><li>29. A student was given a convex mirror, a concave mirror, a convex lens and a concave lens. Which wou help him get an inverted image?</li><li>(A) only concave lens and convex lens.</li><li>(B) only concave mirror and convex mirror.</li></ul>				
	(C) only concave mire	ror and convex lens.	(D) only convex mirro	or and concave lens.
30.	Identify the products of w (A) Biogas	vaste water? (B) Sludge	(C) Both a and b	(D) Aerator
31.	Which of the following Ga (A) Carbon monoxide		es is responsible for Gl (C) Nitrous oxide	obal Warming? (D) All of the above