



ANANDALAYA
SUMMATIVE ASSESSMENT - 1
Class : VII

Subject: SCIENCE
Date : 21/09/2016

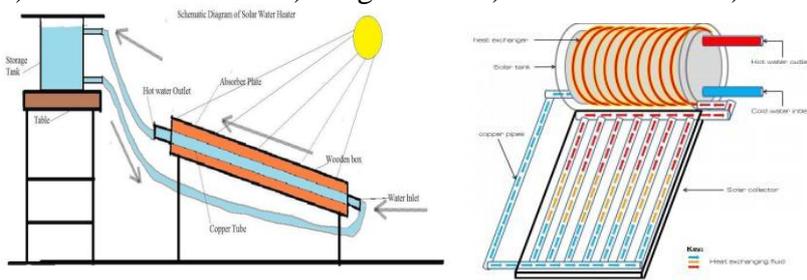
M.M: 50
Time: 2 Hour

General Instruction:

1. The question paper consists of two sections.
2. All the questions are compulsory.

SECTION A

- Q1. A cyclist has covered a distance of 20 km in 3 hrs. Calculate the speed of the cyclist. (1)
- Q2. Why melting of candle to form liquid wax is considered a physical change? (1)
- Q3. Which of the following respire only anaerobically? (1)
- a) Cockroach b) Frog c) Man d) Bacteria
- Q4. (2)



This is a schematic diagram of cross section of a solar water heater.

- a) What colour is supposed to be painted on the water carrying tubes inside the solar water heater? Why?
 - b) Inlet of the water heater is at the bottom of the water heater whereas the outlet of the warm water is at the top of the water heater. If so, how will the warm water move up?
- Q5. Name the breed of sheep whose wool quality is described below: (2)
- a) Carpet wool b) Brown fleece
- Q6. Raghavan was solving online interactive quiz on carnivorous plants. He was unable to answer two of the questions mentioned below. Help him to score maximum to become quiz champion by writing down the answer to the given questions. (2)
- a) Which plant part in pitcher plant is modified into pitcher- like structure?
 - b) When the prey is trapped in such plants, What happens to it?
- Q7. Name the following: (2)
- a) Carbohydrate digested only by ruminants
 - b) Largest gland in human body
 - c) Digestive juice secreted by pancreas
 - d) Finger like structures formed by amoeba
- Q8. Give Reason: (3)
- a) The roofs of the houses are generally blown away during fierce cyclones.
 - b) We feel stuffy and hot just before it rains.
 - c) There is a kink in the clinical thermometer.
 - d) The cause of South-West monsoon is Rajasthan desert.
 - e) The winds which blow from Polar Regions to equator due to uneven heating between poles and equator are curved.
 - f) Both woollen clothes and cotton clothes are poor conductors of heat. But woollen clothes are preferred than cotton clothes in winter.

- Q9. Two friends Christiana and Sindhu visited Marina beach at Chennai in the evening to enjoy cool breeze. The beach was totally packed with lots of people. Suddenly, they found a little girl crying. Immediately, they spoke to the little girl and took her to the nearby Police Chowki. (3)
- Explain how cool breeze is blowing in the beach.
 - Write two values presented by these two girls.
- Q10. State any three properties of chemical change you observe when crackers are burst. (3)
- Q11. a) Paheli is suffering from indigestion due to acidity. Is it advisable to give her orange juice in this situation? Why? (3)
- Change A- Animal waste is converted into biogas.
 - Change B- Biogas is burnt as a fuel.
- Which of these is a chemical change? Why?
- Q12. Draw the diagram of human excretory system and label all its parts. (3)
- Q13. When a person gets hurt, bleeding stops after sometime. (3)
- Give the scientific reason for the above statement.
 - Name the components of human blood.
- Q14. a) The product of photosynthesis is not a protein. Justify the given statement with scientific reasons. (2)
- Represent the process of photosynthesis in the form of chemical equation. (1)
- Q15. a) Explain two effective measures to be taken by i) the government & ii) the people each before cyclone hits their place. (5)
- Explain the difference between cyclone alert and cyclone warning.
- Q16. a) If you are provided with three colourless solutions: dil. NaOH (sodium hydroxide), water and dil. HCl (hydrochloric acid) then how will you identify water without tasting? (5)
- How do hair of certain animals help in keeping their bodies warm?

SECTION B

- Q17. The instrument which is used for measuring wind speed (1)
- manometer.
 - barometer.
 - anemometer.
 - speedometer.
- Q18. Due to cyclone, coastal areas get flooded. The agricultural land near the coastal areas become unfit for cultivation because (1)
- of epidemic.
 - of salinity.
 - of water stagnation.
 - of contamination.
- Q19. Transpiration creates the suction pull that helps in (1)
- transportation of food
 - transportation of water
 - removal of wastes
 - both a) and b)
- Q20. Blood is red due to the presence of haemoglobin. The other functions of haemoglobin is (1)
- supply of oxygen to body parts
 - excretion of waste from blood
 - provides immunity to our body
 - helps in blood clotting.
- Q21. A white shirt has a yellow stain of curry. When soap is rubbed on this shirt during washing, the yellow stain turns red. (2)
- Name the natural indicator present in curry stain.
 - What is the nature of soap (acidic or basic) as shown by the indicator present in curry stain?
- Q22. During heavy exercise, the breathing rate of Akshit increased and after running fast on the track his legs developed cramps. Why did all these happen in such situations? (2)