



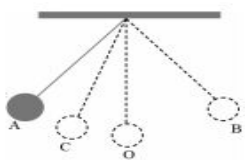
**ANANDALAYA**  
**PERIODIC TEST - 2**  
**Class : VII**

Subject: Science  
Date: 27/09/2019

M.M : 50  
Time : 2 Hours

**General Instructions:**

1. All questions are compulsory. There are 23 questions in all.
2. Question numbers 1 to 11 are objective type questions and carry 1 mark each.
3. Question numbers 12 to 14 are short answer questions and carry 2 marks each.
4. Question numbers 15 to 20 are also short answer questions and carry 3 marks each.
5. Question numbers 21 to 23 are long answer questions and carry 5 marks each.

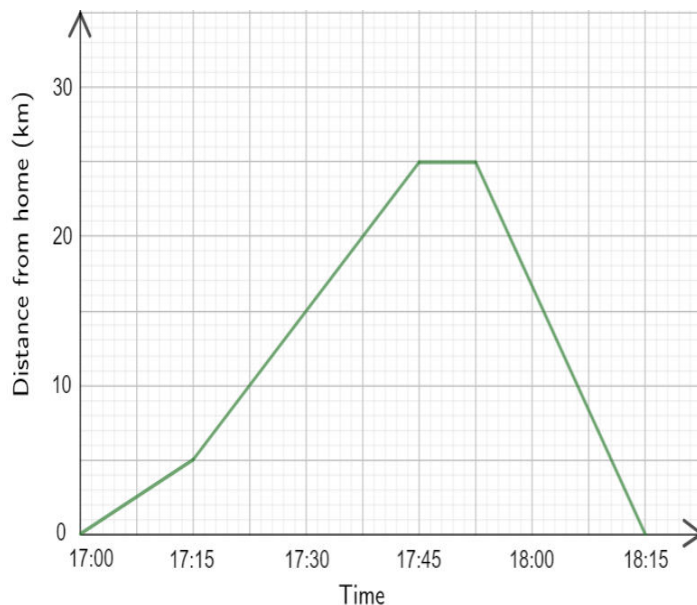
1. Time taken by the bob of an oscillating pendulum to move from A to C is  $t_1$  sec and from C to O is  $t_2$  sec. The time period of this simple pendulum is (1)  
(a)  $(t_1 + t_2)$  sec (b)  $2(t_1 + t_2)$  sec  
(c)  $3(t_1 + t_2)$  sec (d)  $4(t_1 + t_2)$  sec
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2. The speed of wind is measured using an instrument \_\_\_\_\_. (1)  
(a) Barometer (b) Manometer (c) Anemometer (d) Ammeter
  3. Which type of wool is common in Tibet and Ladakh? (1)  
(a) Angora wool (b) Pashmina wool (c) Yak wool (d) Sheep wool
  4. The enzyme that helps in the digestion of cellulose in cattle is \_\_\_\_\_. (1)  
(a) Amylase (b) Cellulase (c) Lipase (d) Protease
  5. In which of the following activity the rate of respiration will be the slowest? (1)  
(a) Walking (b) Running (c) Sleeping (d) Skipping
  6. The SI unit of number of oscillations per second is hertz. (True / False) (1)
  7. Digestion of starch in human starts in the stomach. (True / False) (1)
  8. The fleece of sheep is removed from the animal at the beginning of \_\_\_\_\_ season. (1)  
OR  
\_\_\_\_\_ fabric traps most of the air.
  9. What is the difference between speedometer and odometer? (1)
  10. A man travelling in a bus threw an empty plastic packet of potato wafer outside the window. Is this a proper waste disposal method? Support your answer. (1)

11. Why do fishes open their mouth and gill cover alternately? (1)
12. Give reason for the following: (2)
- A closed tin can containing boiling water gets crushed, when kept under cold water.
  - Asbestos roofs of some houses blown off during wind storms.
13. The pipes used for storm water disposal are usually bigger than those used for sewage disposal. Analyse the given statement. (2)
14. Why do mountaineers carry oxygen mask with them? (2)
15. (a) How is wind current generated? (3)
- (b) Explain sea breeze with the help of a diagram.
- OR
- (a) A cyclone cannot be observed in the land region. Explain.
- (b) Write a brief note on Tornado.
16. (a) Rest and motion are relative terms. Explain with the help of an example. (3)
- (b) How is uniform motion different from uniform circular motion?
17. Some of the alternative sewage disposal systems for human waste are given below: (3)
- Chemical toilets, Vermi – composting toilets, Septic tanks.
- Answer the following questions with proper reason:
- Which of these toilets provide high quality manure?
  - Which of these are used at outdoor gatherings like marriages?
  - Which of these toilets is most likely to contaminate water of a hand pump installed nearby?
18. (a) Why should we not throw chemicals like paints, medicines and motor oil down the drain? (3)
- (b) A place called Bhishmpur is suffering from water scarcity. People living there were facing a lot of problems to dispose human waste. Balram suggested composting toilets as an alternative sewage disposal system. Is Balaram's suggestion correct? Explain.
19. You have studied the arrangement of teeth in human. Complete the give table based on your study. (3)

Type of teeth	Number of teeth in lower jaw	Number of teeth in upper jaw	Total number of teeth
Cutting and biting teeth			
Piercing and tearing teeth			
Chewing and tearing teeth			

20. When yeast is added to the maida dough, it rises up. (3)
- (a) Name the process responsible for it.
  - (b) How do yeast respire when no oxygen is available in the dough?
  - (c) Represent the type of respiration it performed in the form of chemical equation.

21. Ram starts from home at 5:00 pm (ie 17:00 hrs) and reaches a market nearby. He returns back home at 6:15 pm (ie 18:15 hrs) after buying vegetable. The distance-time graph of Ram is shown here. (5)



- (a) Describe the motion of Ram between the following duration.
    - (i) From 17:15 hrs to 17:45 hrs.
    - (ii) From 17:45 hrs to 17:50 hrs.
    - (iii) From 17:15 hrs to 18:00 hrs.
  - (b) Calculate his speed between 17:15 hrs to 17:45 hrs?
22. (a) Name two useful substances which are produced by the treatment of sewage. State their uses. (5)
- (b) Explain the function of bar screen in a wastewater treatment plant.
- (c) Name two chemicals used to disinfect water.
23. (a) Explain the digestion of three major food components in us by mentioning the specific enzymes involved and the products formed. (5)
- (b) Define the term breathing rate. How do you calculate this?

OR

- (a) Explain ruminant digestion.
- (b) How do the plants take in air for respiration?