



विद्या सर्वार्थ साधिका

ANANDALAYA
PERIODIC TEST - 2
Class : VII

Subject: Science
Date : 26-09-2022

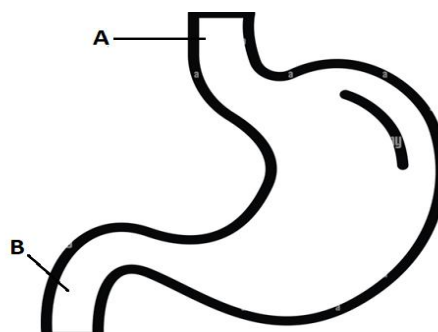
MM : 50
Time: 2 hours.

General Instructions:

1. There are 23 questions in this question paper. All questions are compulsory.
2. Q. No. 1 to 11 are objective type questions and carry 1 mark each.
3. Q. No. 12 to 14 are short answer questions and carry 2 marks each.
4. Q. No. 15 to 20 are also short answer questions and carry 3 marks each.
5. Q. No. 21 to 23 are long answer question and carry 5 marks.

1. A curtain is hanging at the entrance of a room. A long corridor runs at right angles to the door that is parallel to the curtain. If a strong wind blows along the corridor, the curtain will _____. (1)
(A) get pushed inside the room (B) get pushed outside the room
(C) get collected towards one end. (D) remain unaffected.
2. Assertion: Wind currents are generated due to uneven heating of land and water. (1)
Reason: In summer monsoon, wind blows from ocean to land.
(A) Both A and R are true, and R is the correct explanation of the assertion
(B) Both A and R are true, but R is not the correct explanation of the assertion.
(C) A is true, but R is false.
(D) A is false, but R is true.
3. A man is digging the ground near a water body found that the soil was moist. As he kept digging deeper and deeper he reached a level where all the spaces between particles soil and gaps between rocks were filled with water. The upper limit of this layer is called _____. (1)
(A) Water level (B) Water Table (C) Ground water (D) Water limit
4. Which features adapt polar bears to live in extremely cold climate? (1)
(A) A white fur, fat below skin, keen sense of smell
(B) Thin skin, large eyes, a white fur
(C) A long tail, strong claws, white large paws
(D) White body, paws for swimming, gills for respiration
5. The absorption of nutrients and exchange of respiratory gases between blood and tissues take place in _____. (1)
(A) veins (B) heart (C) capillaries (D) arteries
6. Which of the following organs do not secrete digestive enzymes in human digestive system? (1)
(A) Oesophagus, Large intestine, rectum
(B) Oesophagus, Buccal cavity, rectum
(C) Buccal cavity, Oesophagus, Large intestine
(D) Oesophagus, Small intestine, rectum
7. Why are holes made in hanging banners and hoardings? (1)

8. Sonu and Elena are sprinters. They took part in 100 m race in state level sport meet. Sonu completed 100 m in 10 sec whereas, Elena completed it in 20 sec. Calculate the speed of both the sprinters. (1)
9. Silk yarn of different types can be prepared. Explain the statement. (1)
10. Fungi grow on pickles, leather, clothes and other articles during rainy and winter season. Why is it so? (1)
11. In birds and mammals, the blood circulatory system is of closed type. The oxygen rich blood and carbon dioxide rich blood are circulated in different blood vessels. Why is it necessary to separate oxygenated and de-oxygenated blood in birds and mammals? (1)
12. Given reason for the following: (2)
- (a) Mercury is used in the thermometer in place of water.
- (b) Laboratory thermometers are long whereas clinical thermometers are short.
13. (a) What is the source of water in each of the following? (2)
- (i) Ground (ii) Atmosphere
- (b) How does reservoir of dam help us to manage water?
14. Explain symbiotic relationship seen among organisms with the help of an example. (2)
15. (a) How is a cyclone formed? (3)
- (b) In which way advanced technology helps us in managing disaster of cyclone?
16. (a) What is the difference between uniform speed and non-uniform speed? (3)
- (b) Which unit of speed will you use to express the speed of train? Express it in SI unit of speed.
- (b) A boy is running at the speed of 5 m/s. Find the distance covered by him in 30 s.
17. (a) Sorter's disease is an occupational hazard. Explain. (3)
- (b) All the rain that falls over an area is not utilised. Do you agree? Explain.
- (c) Name the two regions of the earth having extreme climatic conditions.
18. (a) Why do we feel so miserable in the summer afternoon and comparatively comfortable early in the morning? (3)
- (b) Saroj covered a cup of hot water with a lid. What do you think she will notice after ten minutes?
19. (a) List any two processes that help in transportation of water in plants. (3)
- (b) What will happen if blood haemoglobin combines with carbon dioxide?
- (c) Name the nitrogenous waste excreted by fishes and birds.
20. Answer the questions based on the figure of human stomach given: (3)
- (a) Name the digestive glands that are associated with part labelled as B.
- (b) Which part of digestive system opens into A? What is the function of that part?
- (c) Why is digestive juice secreted by the stomach is acidic in nature?



21. (a) Under what condition, heat will transfer from one body to another? (5)
(b) Explain three modes of heat transfer.
(c) Good heat reflectors are bad heat absorbents. Justify the statement by giving one real life example.
22. (a) You have been asked to buy a woollen sweater from the market. How will you check its purity. Suggest an activity. (5)
(b) The excessive use of water leads to a severe problem. Write the problem.
(c) State the consequences, if plants do not get enough water.
23. In humans, breathing involves inhalation and exhalation. The parts such as lungs, diaphragm and ribcage play a vital role during breathing. Breathing rate of an individual is calculated based on the number of breaths in a minute. (5)
(a) Trace the path of inhaled air from atmosphere to alveoli during breathing with the help of a labelled diagram.
(b) Explain what happens to the parts involved in inhalation.
(c) Do plants respire or breathe? Justify your answer.