

A K M PUBLIC SCHOOL
FIRST SEMESTER EXAMINATION (SAMPLE QUESTION PAPER)
SCIENCE

TIME 2 HR MAX. MARK 50

CLASS VII

General Instructions

- * All questions are compulsory
- * The question paper consists of 26 questions and it is divided into sections A,B,C,D,E
- * Section A comprises 12 one mark questions.
- * Section B comprises 7 two mark questions.
- * Section C comprises 5 three mark questions .
- * Section D comprises 1 four mark question.
- * Section E comprise 1 five mark question.

SECTION A

1. A base that dissolves in water is called
 (a) An alkali (b) An acid (c) An indicator(d) A salt
2. Which of these is a natural indicator
 (a)Litmus (b) Phenolphthalin (c).Methyl orange (d) None of this
3. The part of the alimentary canal where Water and salts are absorbed is.
 (a) Villi (b) Gall bladder (c) Large intestine (d) Stomach
4. The pH of a neutral substance is -----
 (a) 4 (b) 14 (c) 9 (d) 7
- 5.No medium is required for transfer of heat by the process of
 (a)Conduction (b) Convection (c) Radiation (d) Condensation.
6. The table shows some steps involved in the food intake by amoeba

Step No	Description
A.	Sensing of food
B.	Engulfing of food particles
C.	Pushing out pseudopodia
D.	Trapping of food in food vacuoles

- (a).A;B; C;,D. (b) A; C; B;D (c) B; A; C ;D. (d) B; C; A; D
7. In distance- time graph of a moving object, X axis represents
 (a) Time (b) distance (c) direction (d) speed

8. Heat flows from:

- (a) Hot object to colder object (b) Colder object to hotter object
(c) Upside down (d) Conductor to insulator

Fill in the blanks

9.-----is the largest gland in the human body

10. A physical change is generally-----

11. The basic unit of speed is-----

Following questions consist of two statements Assertion and R.

Answer these questions selecting an appropriate option given below

- a) Both Assertion and Reason are correct and reason is the correct
 a. explanation of Assertion
b) Both Assertion and Reason correct but reason is not the correct
 a. explanation of Assertion
c) Assertion is correct and reason is incorrect
d) Assertion is incorrect and Reason is correct

12. Assertion: Sugar is a neutral substance

Reason: A sugar solution turns red litmus blue

SECTION B

13. What color change occurs when methyl orange is added to acid?
14. What color observed when iodine is added to the starch present in the leaf?
15. What is the important role of Hydrochloric acid in digestion ?
16. Define sea breeze.
17. What is autotrophic nutrition? Which carbohydrate is formed by Photosynthesis?
18. Write two differences between acids and bases.
19. What are the functions of each type of teeth?

SECTION C

20. What is thermometer? Give names of two types of thermometer and also write their range.
21. Although insectivorous plants have chlorophyll, they are still considered heterotrophic plants. Why?
22. Which gland secretes saliva? Write two functions of saliva.

23. (i) What are the two types of litmus papers? Name them.
(ii) What happens when:
(a) 4-5 drops of orange juice is poured on blue litmus paper and
(b) 4-5 drops of Shampoo is poured on red litmus paper
24. Explain why do woolen clothes keep us warm in winter.

SECTION D

25. Read the source given below and answer the following questions.

Tongue is a fleshy muscular organ attached at the back to the floor of the buccal cavity. It mixes saliva with the food during chewing and helps in swallowing food. The front portion of the tongue can detect sweet taste, the left and right side portions, can detect salty taste, small left and right portions of the tongue, behind this salty taste detecting areas can detect sour taste and the back portion of the tongue can detect bitter taste

(I). Which area of the tongue tastes sweetness?

(a) Left side (b) Right side (c) Middle parts (d) Tip

(ii). The structures that are found on the tongue and responsible for various tastes are called.

(a) taste pores (b) taste glands (c) taste buds (d) taste organs

(iii). Fill in the blanks by choosing appropriate word to make a meaningful sentence

(a) The left and right side of the tongue tastes-----

(b). The back portion of the tongue can detect ----- taste

(iv). True/False

(a). The middle part of the human tongue taste buds are absent.

(b). Saliva breaks down starch into simple sugar

SECTION E

26. The distance between Vikas house and science centre is 20 km. For going to science centre, he starts at 9:00 a.m. and reaches the science centre at 10:00 a.m.

(a) If speed = distance \ time taken, what is the unit of speed?

(b) How much time Vikas has taken to cover the distance between his house and the science centre?

(c) Calculate the speed of cycle.