K.P.C PUBLIC SCHOOL, KHARGHAR
ASSESSMENT I 2023-24

GRADE: VIII   **MARKS :50**
SUBJECT: SCIENCE   **TIME: 2 Hrs.**

SECTION – A

A] Tick (√) the correct answer: **(1 x 10=10)**

1. Alina has cold and viral flu for the past 5 days. Her mother gave her antibiotics but she is not recovering. What can be a likely reason for the same?
   (a) Antibiotics are used against viral infections.
   (b) Antibiotics takes time to cure the infection.
   (c) Antibiotics are used against bacterial infections.
   (d) Antibiotics are used to prevent infection rather than to cure them.

2. The table lists some practices for cultivation of crops.

   | A. Protection from weeds |
   | B. Sowing |
   | C. Harvesting |
   | D. Preparation of soil |
   | E. Irrigation |
   | F. Storage |
   | G. Adding manure and fertilisers |

   What is the correct sequence of these agricultural practices?
   (a) A-D-F-G-B-C-E   (b) G-B-A-C-F-E-D
   (c) D-B-G-E-A-C-F   (d) B-D-E-G-C-F-A

3. Which of the following is not used as food preservation?
   (a) Salt   (b) Sugar   (c) Vinegar   (d) Methane

4. The whispering sound of a person can be heard by everyone if he
   (a) Increases amplitude of the sound   (b) Increases the frequency of the sound
   (c) Increases the velocity of the sound   (d) Decreases the velocity of the sound

5. Which of the following condition is not essential to grow maize?
   (a) High temperature   (b)Humidity   (c) Low temperature   (d)Rainfall

6. Which option shows the correct example of diseases in plants or animals and their corresponding harmful agents?

	Disease	Affects	Caused by
(a)	Anthrax	Plants	Bacterium
(b)	Cholera	Animals	Fungus
(c)	Citrus canker	Animals	Bacterium
(d)	Rust of wheat	Plants	Fungus

7. What helps in the rise of bread or dosa dough?
   (a)Heat   (b) Grinding   (c)Growth of yeast cells   (d) Low pressure
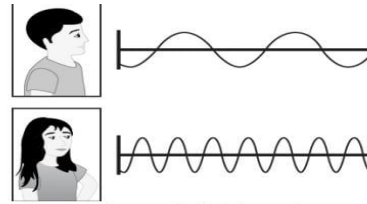
8. Vibration in a body produce
   (a) Sound   (b) Pressure   (c)Energy   (d) Density

9. A student learns that the sound travels in a waveform. The image shows the sound waves produced by a man and a woman.

What can be concluded from the image?
(a) closer the waves, greater will be the amplitude
(b) closer the waves, greater will be the frequency
(c) farther the waves, greater will be the amplitude
(d) farther the waves, greater will be the frequency

10. Kamlesh grows crop in a region of Rajasthan where there are no lakes and very little rainfall. During summers, the low availability of water limits the crop production. Which irrigation method Kamlesh should adopt to use water economically?
(a) drip system   (b) lever system   (c) pulley system   (d) sprinkler system

B] Fill in the blanks: **(1 x 7 = 7)**
11. The unit of frequency is _____.
12. The number of vibrations per second is called _____.
13. Damaged seeds would _____ on top of water.
14. Supply of water to crops at appropriate intervals is called _____.
15. Viruses uses the energy of the _____ cells to reproduce themselves.
16. The process of conversion of sugar into alcohol is called _____.
17. Crops cultivated without using any chemicals are called _____.

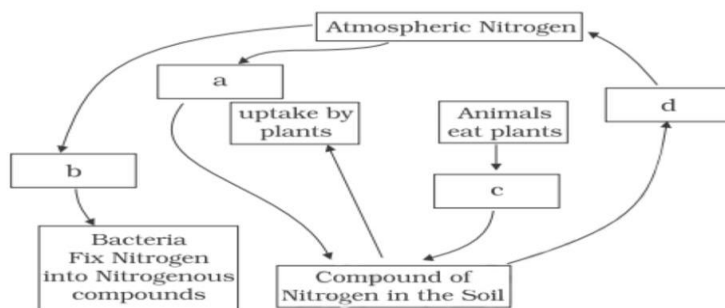**C]True or False:**   **(1 x 7 = 7)**
18. For human ears, the audible range is 20 Hz to 20,000 Hz.
19. Seed drill is a device to spread seeds in soil.
20. Irrigation is cutting down of mature crop.
21. Streptomycin is an antibiotic.
22. Micro-organisms can be found only in air and water.
23. Lower the frequency of vibration, higher is the pitch.
24.In 1857, Edward Jenner observed that fermentation is a biochemical process.

SECTION - B
D] Short Answer Type Questions: **(3 x 2 =6)**
25. A pendulum oscillates 50 times in 6 seconds. Find its time period and frequency.
26. What are weeds? Name two weedicides.
27. Complete the following cycle given in Figure below by filling the blanks (a), (b), (c) (d)

SECTION – C
E] Short Answer Type Questions: (ANY 3)   **(3 x 3 = 9)**
28. List two sources of noise pollution in your locality. Suggest two measures to limit noise pollution in your locality.
29. Distinguish between fertilisers and manure.
30. How can we prevent the following diseases?
    a. Cholera   b. Typhoid   c. Hepatitis A
31. Write the advantages of using a seed drill.

SECTION – D

F] Long Answer Type Questions: (Any 1)   **(1 x 5 = 5)**

32. What is eardrum? How does it play an important role in hearing? Explain with a neat diagram.

                                    OR

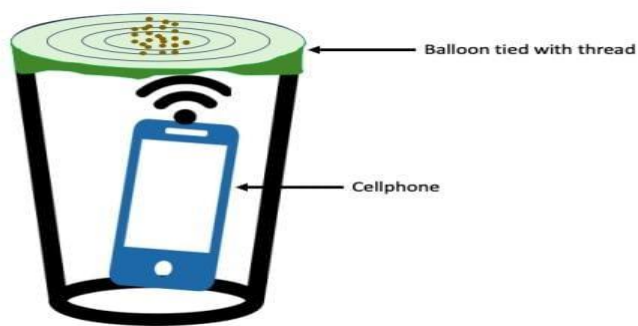33. What are microorganisms? Write 8 lines on the usefulness of microorganisms in our lives.

SECTION – E
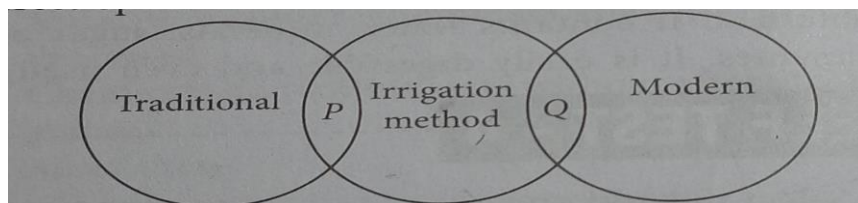
G] Case-study based/ Data based questions: **(1 x 6 = 6)**

34**. Read the following procedure and answer the following questions:**

1. Take a transparent glass and place it on a table.
2. Take a cell phone and place it in the glass.
3. Cover the lid of the beaker with balloon and tie it with the help of thread.
4. Place some sand on the balloon.
5. Give a ring to the phone which is inside the glass.

  (a) What does happen to sand particles?
  (b) What is the reason behind it?
  (c) If there is no sound, will sand particles still dance?

35. On Rahul's birthday, his mother prepared many dishes for him. After having their meal, they found that many food items were left over. Rahul's mother kept these leftovers in a air-tight container and refrigerate them.
  (a) What will happen to the food if it is not refrigerated?
  (b) What is the role of refrigeration in food preservation method?

36. Refer to the given Venn diagram and select the correct option.

  (a) P could be dhekli whereas Q could be moat.
  (b) P could be sprinkler system whereas Q could be rahat.
  (c) P could be chain pump whereas Q could be drip system.
  (d) P could be drip system whereas Q could be dhekli.

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