FORMATIVE ASSESSMENT - THIRD MID TERM

SCIENCE

Max. Marks: 50

Std - VIII

Time: 2 Hrs

Name of the School:	**Name of the Student:**
_____	_____
Place:	**Roll No.:**
_____	_____

I. Choose the correct answer: **10 × 1 = 10**

1. The amplitude of the sound wave decides its _____
   a. speed b. pitch c. loudness d. frequency
2. Noise is produced by _____
   a. vibrations with high frequency b. regular vibrations
   c. regular and periodic vibrations d. irregular and non-periodic vibrations
3. What kind of musical instrument is a sitar? _____
   a. string instrument b. percussion instrument
   c. wind instrument d. none of these
4. Which of the following is a water pollutant? _____
   a. lead b. alum c. oxygen d. chlorine
5. Solubility of carbon dioxide in water is high when the _____
   a. pressure is low b. pressure is high
   c. temperature is high d. none of the above
6. Water changes to ice at _____
   a. 0°C b. 100°C c. 102°C d. 98°C
7. Aqueous solutions of _____ conduct electricity.
   a. acid b. base c. acid, bases, salts d. salt and base
8. Sodium hydroxide is a _____
   a. acid b. base c. oxide d. alkali
9. Magnesium hydroxide is used to treat _____
   a. acidity b. head pain c. teeth decay d. none of these
10. In basic solution turmeric indicator paper changes from yellow to _____
    a. blue b. green c. yellow d. red

II. Answer the following: (Any 10) **10 × 1 = 10**

11. Match the following:

i)	Ultrasonics	-	Frequency below 20Hz
ii)	Speed of sound in air	-	Needs material medium
iii)	Infrasonics	-	330 m/s
iv)	Sound propagation	-	Frequency more than 20000 Hz

12. Fill in the blanks:

    i) Sound travels in the form of _____

    ii) Pitch of a sound depends on the _____ vibration.

13. Consider the statements labelled as assertion and reason and choose the correct options.

    i) Assertion: When lightning strikes, the sound is heard a little after the flash is seen.

    Reason: The velocity of light is greater than that of the sound.

    a. Both assertion and reason are true, and reason is the correct explanation of assertion.

    b. Both assertion and reason are true, but reason is not the correct explanation of assertion.

    c. Assertion is true, but reason is false.

    d. Assertion is false, but reason is true.

14. What is vibration?

15. State true or false. If false, correct the statement.

    i) Excessive use of chemical fertilizers depletes the soil and causes water pollution.

    ii) Water unfit for drinking is called potable water.

16. Give reasons.

    Water is a universal solvent.

17. Define specific heat capacity.

18. What are the methods of removing hardness of water?

19. Define acid.

20. Write any two physical properties of acids.

21. Name the acid present in vinegar.

22. Name any two synthetic acid-base indicators.

III. Answer all the questions: **5 × 2 = 10**

23. Give an example to show that light travels faster than sound.

(or)

Give two differences between music and noise.

24. What are the hazards of noise pollution?

(or)

What is water of crystallization?

25. Explain anomalous behaviour of water.

(or)

What are the similarities between acids and bases?

26. State the difference between acids and bases.

(or)

What is an indicator?

27. What is a neutralisation reaction?

(or)

Write any four physical properties of bases.

IV. Answer in detail: (Any 4) **4 × 5 = 20**

28. What are the properties of sound?
29. Write any four differences between transverse and longitudinal waves.
30. How is water purified at a water purification plant?
31. How can we obtain about 99% pure water? Describe the process.
32. What are the uses of acids?
33. How will you prepare a natural indicator from turmeric powder?