



विद्या सर्वार्थ साधिका

ANANDALAYA
PERIODIC TEST - 2
Class : VIII

Subject: Science
Date : 22-09-2022

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. Pressure is defined as _____. (1)
(A) force upon unit area (C) force x area
(B) area upon force (D) force x area²
2. If the wings of butterfly oscillate 1000 times in 2 seconds. The frequency is _____. (1)
(A) 2/1000Hz (B) 1/500 Hz (C) 1000Hz (D) 500 Hz
3. Complete the following paragraph by choosing appropriate words for P, Q, R and S from options given below: (1)
Ps are good conductor of heat and electricity whereas Qs are not. R although is a non-metal but a good conductor of electricity. Metals are generally solid at room temperature whereas S is the only liquid metal. Non-metals are generally solids or gases but bromine is liquid at room temperature.
- | | P | Q | R | S |
|-----|-----------|-----------|----------|----------|
| (A) | Diamond | Graphite | Graphite | Gallium |
| (B) | Graphite | Diamond | Graphite | Gallium |
| (C) | Non-metal | Metal | Diamond | Mercury |
| (D) | Metal | Non-metal | Graphite | Mercury |
4. Rama has two jars- X and Y. Jar X is made up of aluminium and jar Y is made up of glass. She has to store pickle in any one of them. She preferred jar Y because _____. (1)
I. It does not react with pickle III. It preserves the colour of the pickle
II. It preserves the odour of the pickle IV. It preserves pickle from being spoiled
Choose the correct reason(s) from the following:
(A) I and II (C) I, II and III
(B) I and IV (D) Only I
5. Match the following column I and II and select the correct option from the given: (1)
- | | Column I | Column II |
|---|---------------|-----------------|
| P | Rust of wheat | i Louis Pasteur |
| Q | Fermentation | ii Bacteria |
| R | Anthrax | iii Fungi |
| S | Tuberculosis | iv Robert Koch |
- (A) P- ii, Q - i , R - iv, S – iii (C) P- iii, Q - i, R - iv, S – ii
(B) P- i, Q - ii , R - iv, S – iii (D) P- iv, Q - iii, R - ii, S – i

6. Gene is present on _____ of the nucleus. (1)
 (A) Chromosomes (C) Plastids
 (B) Cytoplasm (D) Lysosome
7. What is atmospheric pressure? (1)
8. Why is rest called a state of motion? (1)
9. X is a yarn which is generally used in the preparation of the following items. (1)



In these applications, it is used because of its strength. State the reason because of which fibres of X are strongest.

10. List any two vectors that easily spread human diseases. (1)
11. Write the number of nuclei present in each of the following unicellular structures: (1)
 Paramecium, matured RBC of mammals
12. Nayana is a class 8 student and wants to display a chart on the class bulletin board using thumb pins. How does she use the thumb-pin to fix the chart on the bulletin board without getting hurt? Give reasons for your answer. (2)
13. Write an activity to show that synthetic fibres are stronger than the cotton fibres. (2)
14. Give scientific reason for the given statements. (2)
 (a) Virus is considered neither living nor non-living.
 (b) Yeast is exclusively used in bakery industry.
15. 'Friction – A necessary Evil'. Discuss 'For' and "Against" of the given statement by giving three examples each. (3)
16. Explain the following statements: (3)
 (a) Sliding friction is less than static friction.
 (b) Applying oil or grease between moving parts of a machine reduces friction.
 (c) Birds moving through air have streamlined shape.
17. A student took sulphur powder on a spatula and heated it. Then she collected the gas evolved by inverting a test tube over it. Write a chemical word equation for the reaction taking place. What will be the action of this gas on: (3)
 (a) dry litmus paper (b) moist litmus paper
18. Nikita took Zn, Al, Cu, Fe, Mg, Na metals & put each metal in cold water and then hot water. She reacted the metal with steam. (3)
 (a) Name the metal which reacts with cold water.
 (b) Which of the above metals react with steam?
 (c) Name the metal which reacts with hot water.
 (d) Arrange these metals in order of increasing reactivity.

19. Krishi Vigyan Kendra (KVK), a constituent extension centre of Tamil Nadu Veterinary and Animal Sciences University, organised a farmer's workshop on organic farming in vegetable cultivation at Kalayarkoil to commemorate the 'World Soil Day'. (3)
- (a) What is organic farming?
 (b) Write any two advantages of organic farming.

20. Nucleus is the central dense round structure of the cell. It is referred as the controlling centre of the cell. It also co-ordinates with other parts of the cell. (3)
- (a) Write the location of nucleus in a plant cell and why?
 (b) Why is nucleus referred as the controlling centre of the cell?
 (c) Draw a bacterial cell and label the nucleoid in it.

21. (a) Identify one noise produced in the kitchen of your house other than TV or music system and suggest a way to minimise it. (5)
- (b) Write the difference between audible sound and noise.
 (c) How does a mimicry artist change his/her voice?
 (d) (i) Identify from the given diagrams which sound wave represents the chirping of birds.



- (ii) Which characteristic of sound wave did you use to identify the chirping of birds? Give reason for your answer.

22. (a) Explain why the following are made of thermosetting plastics. (5)
- (i) Saucepan handles
 (ii) Electric plugs/switches/plug boards
- (b) Why some metal surfaces acquire a dull appearance when they are exposed to moist air? Write the colour acquired by the surfaces of copper and silver in such situation and also write the chemical names of the substances due to which it happens.
 (c) How are alloys better than metals? Give composition of solder and amalgam.

23. (a) State three differences between blue green algae and an animal cell based on their cellular organisation. (5)
- (b) Identify the organism from the given figure A and B.
 (c) Write the significance of organism labelled as A and B.

