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F TJ

FIRST MID TERM TEST - 2022

7 - STD

SCIENCE

Time : 1.30 hrs. Marks : 50

I Choose the correct answer and answer all the questions. 15X1= 15

1. Light year is the unit of
   a) distance b) time
   c) density d) Both length and time
2. Which of the following is a derived quantity?
   a) mass b) time c) area d) length
3. SI unit of density is
   a) kg/m^2 b) kg / m^3 c) kg/m d) g/m^3
4. The average distance between the earth and the Sun is ..... .
   a) light year b) astranamical unit c) an year d) kilometre
5. A particle is moving in a circular path of radius r. The displacement after half a circle would be
   a) Zero b) R c) 2r d) r/2
6. Suppose a girl is enjoying a ride on a merry go round which is moving with a constant speech of 5m/s. It implies that the girls is
   a) at rest b) moving with no acceleration
   c) in accelerated motion d) moving with uniform velocity
7. How can we increase the stability of an object?
   a) Lowering the centre of gravity b) Raising the centre of gravity
   c) Increasing the height of the object d) Shortening the base of the object
8. The basic unit of matter is ..... .
   a) element b) atom c) molecule d) electron
9. The sub-atomic particle which revolves around the nucleus is ..... .
   a) Atom b) Neutron c) Electron d) Proton
10. ..... is positively charged.
    a) Proton b) Electron c) Molecule d) Neutron
11. Reproductive part of a plant is
    a) root b) stem c) leaf d) flower
12. Pollinators are
    a) wind b) water c) insect d) all the above

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13. Vegetative propagation by leaves takes place in
a) bryophyllum b) fungi c) virus d) bacteria
14. Climbing roots are seen in
a) betel b) black pepper c) both of them d) none of them
15. Nucleons comprises of ..... .
a) protons and electrons b) neutrons and electrons
c) protons and neutrons d) neutrons and positron

II Answer any 10 questions from the following. 10 X 2 = 20

16. What are derived quantities?
17. Define the density of objects.
18. Use the analogy to fill in the blank.
i) Area : m^2 :: volume : ..... . ii) Liquid : Litre :: Solid : ..... .
19. Name the units used to measure the distance between celestial objects.
20. What is centre of gravity?
21. Distinguish between speed and velocity.
22. Calculate the velocity of a car travelling with a uniform velocity covering 100m in 4 seconds.
23. **Match the following:**

a) Displacement	-	Knot
b) Light travelling through vacuum	-	Large base area
c) Speed of ship	-	Metre
d) Stability	-	Uniform velocity

24. Name the sub-atomic particles.
25. What is atomic number?
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26. State true or false.
i) The basic unit of an element is molecule.
ii) The electrons are positively charged.
27. What are isotopes? Give one example.
28. Write two types of reproduction in plants.
29. What are the agents of pollination?
30. Differentiate bisexual flower from unisexual flower?

III Answer any 3 questions from the following. 3 X 5 = 15

31. How will you determine the density of a stone using a measuring jar?
32. Explain the types of stability with suitable examples.
33. Draw the structure of an atom and explain the position of the sub - atomic particles.
34. Write a brief account on pollination.
35. Draw and label the following parts of flower.
(petal, sepal. stigma style, anther)

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