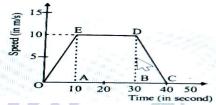
EW STANDARD ACADE NEET - JEE Exam CLASS: 9TH Date : 03-07-23 Time: 90:MIN

PHYSICS

- 1. Distinguish between speed and velocity.
- 2. A car travels a certain distance with a speed of 50 kmh-1 and returns with a speed of 40 kmh-1. Calculate average speed for the entire journey.
- 3. Figure shows the speed time graph of a particle. Find the distance travelled in the time interval 0 to 40s.

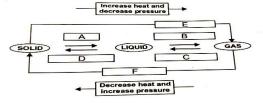


- 4. Define momentum and state its SI unit. State the principle of conservation of momentum.
- 5. State Nuwton's Third Law of motion.
- 6. A body of mass 3 kg is moving with a velocity of 2ms⁻¹ Now a force is applied on the body so that its velocity changes to 3.5ms ¹ in 25 s. Calculate the direction and magnitude of the force acting on the body.
- 7. What is the momentum of an object of mass m, moving with velocity v? 2

a.
$$(mv)^2$$
 b. mv^2 c. 1/3 mv

CHEMISTRY

- 8. Give Reasons:
 - a. A gas fills completely the vessel in which it is kept.
 - b. A gas exerts pressure on the walls of the container.
 - c. A wooden table should be called a solid.
 - d. We can easily move our hand in air, but to do the same through a solid block of wood, we need a karate expert.
- 9. Name A,B,C,D,E and F in the following diagram showing change in its state.



- **10.** A. Explain why temperature remains constant during interconversion of states of matter. B. "sublimation does not require heating." Is this statement true ? Justify your answer.
- **11.** A. List out three difference between evaporation and boiling.
 - B. Why perspiration keeps our body cool?
- **12.** Convert the following temperatures to Kelvin scale.
 - a. 25° C b. 373[°] C
- 13. What is the physical state of water at ? a. 25° C b. 0^{0} C c. 100° C

BIOLOGY

- 14. How do substances like CO_2 and water move in and out of cell
- 15. Where are chromosomes present in the cell what is there chemical composition.
 - b How many chromosomes are present in human
- **16.** discuss the role of
 - presence of deeply folded membrane a. in mitochondria
 - b. digestive enzyme in lysosome
- **17.** Define the following terms
 - a. Diffusion b- endocytosis c-osmosis
 - b. exocytosis
- 18. Name the following
 - a. Tissue that occurs in specific reason of growth
 - b. Tissue present at the growing tips of the stems and roots
 - c. Tissue at the base of the leaves are internode on twigs
 - d. basic packing tissue in the form of a few layers of cell
- **19.** Write two location of the following animal tissue
 - 1 simple squamous epithelial tissue 2 cupbodial epithelium
- 20. Write four characteristic feature of parenchyma tissue.

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MATHS

- 21. If $x = \frac{a-b}{a+b}$, $y = \frac{b-c}{b+c}$, $z = \frac{c-a}{c+a}$, then the value of $\frac{(1+x)(1+Y)(1+z)}{(1-x)(1-y)(1-z)}$ is _____.
- **22.** Find the remainder when the expression $3x^3+8x^2-6x+1$ is divided by x+3.
- **23.** If (x+3,5)=(2,2-y) then the values of the x and y respectively are _____
- 24. The coordinates of two points are A (3,4) and B (-2,5), then (abscissa of A) (abscissa of B is .
- **25.** The area of the triangle formed by the points P(0,1),Q(0,5) and R(3,4) is _____.
- **26.** The equation of the line whose graph passes through the origin is _____.
- 27. The cost of a note book is twice the cost of a pen, If the cost of a note book is Rs. X and that of a pen is Rs. Y, then a linear equation in two variables to represent the given condition is _____.
- **28.** If $x=2-\sqrt{3}$ then the value of $x^2 + \frac{1}{x^2}$ and $x^2 \frac{1}{x^2}$ respectively, are
- **29.** The number $x=1\overline{242424...}$ Can be expressed in the form $x = \frac{p}{q}$, where p and qq are positive integers having no common factors. Then p + q equals
- **30.** If(2,0) is a solution of the linear equation 2x+ 3y=k, then the value of k is _____.

RAEBA

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