

SEMRI KOTHI, SUPER MARKET, RAEBARELI MOBILE NUMBER 9792972355

(c) Liquid > Solid > Gas (d) Gas > Solid > Liquid 17. During the boiling of a liquid, (a) Temperature remains constant (b) Kinetic energy remains constant (c) Heat equal to latent heat of vaporisation is absorbed (d) All are correct 18. True statement is: (a) Water and steam at 373 K have equal energy (b) Water and ice at 273 K have equal energy (c) Water at 373 K is more effective for heating than steam at 373 K (d) Water and steam have same kinetic energy at 373 19. Which of the following are rigid forms of matter? (a) Only solids (b) Only liquids (c) Solids and liquids (d) Liquids and gases 20. Which of the following behave like fluids? (a) Only gases (b) Gases and liquids (c) Only liquids (d) Gases, solids and liquids 21. Which of the following conditions increase the evaporation of a liquid? (a) High temperature (b) Large surface area (c) Removal of vapours from the system (d) All are correct 22. Correct statement is: (a) Evaporation is a surface phenomenon (b) Ice at 273 K is less effective for cooling than water at 273 K (c) Water at 373 K is more effective for heating than steam at 373 K (d) Boiling of a liquid is a surface Phenomenon 23. Which of the following conditions would increase the interparticle distance of a gas? (i) Increase of pressure (ii) Leaking of some of the gas (iii) Increase the volume of container (iv) Increase the temperature of the gas (a) (i) and (ii)(b) (ii), (iii) and (iv)(c) (i) and (iii)(d) (ii) and (iv) 24. A few substances are arranged in the increasing order of inter-particle spaces. Which of the following represents a correct arrangement? (a) Water, iron, oxygen

- (b) Gold, ethanol, nitrogen
- (c) Copper, hydrogen, glycerine
- (d) Carbon dioxide, methanol, aluminium
- 25. Correct statement is:
  - (a) Kinetic energy of all the particles of a liquid is same at a given temperature
  - (b) During boiling, kinetic energy of the particles increases
  - (c) Energy of water of 0°C is more than the energy of ice at 0°C
  - (d) Energy of water at 373 K is less than the energy of steam at 373 K
- 26. The order of diffusion is :
  - (a) Gases > Liquids > Solids
  - (b) Liquids > solids > Gases
  - (c) Solids > Liquids > Gases
  - (d) Liquids > Gases > Solids
- 27. The force of attreaction between the particles of iron , ice-cube and chalk increases:
  - (a) Iron nails < Ice- cube< Chalk
  - (b) Chalk < Ice cube < Iron nails
  - (c) Ice cube < Chalk < Iron nails
  - (d) Ice cube < Iron nails< Chalk
- 28. Under identical conditions of temperature and pressure correct order of density is
  - (a) Gases < Solids <Liquids
  - (b) Gases > Liquids > Solids
  - (c) Solids <Liquids< Gases</li>(d) Liquids < Gases < Solids</li>

Directions: The questions given below consists of an "Assertion" (A) and the "Reason" (R). Use the following key to choose the appropriate answer.

- (a) If both assertion (A) and reason (R) are True and reason (R) is the correct expianation of assertion (A).
- (b) If both assertion (A) and reason (R) are True, but reason (R) is not the correct explanation of assertion (A).
- (c) If assertion (A) is True, but reason (R) is False.
- (d) If assertion (A) is False, but reason (R) is True.
- 29. Assertion (A): Non-reacting gases diffuse into each other readily.Reason (R): The attractive forces among the gas molecules are large.
- Assertion (A): Aquatic animals and plants need oxygen and carbon dioxide for their survival. They survive in sea.
   Reason(R): Oxygen and carbon dioxide are present in atmosphere and they diffuse in water and get dissolved.

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(d) None of theses 42. In phagocytosis taken a substance (a) Solid substance (b) Liquid substance (c) Gaseous substance (d) All types substance 43. In pinocytosis thaken -(a) Solid substance (b) Liquid substance (c) Gases substance (d) All type of substance 44. Nucleus is a absent in (a) Prokaryot cell (b) Eukaryotic cell (c) Both type of cell (d) None of these 45. Major component of cell membrane is: (a) Lipid (b) Protein (c) Carbohydrate (d) Nucleic acid MATH 46. Which of the following algebraic expressions is a cubic polynomial in one variable? (a)  $2x - 5x^2$ (b)  $2x^2y - 3xy + 5$ (c)  $2+7y-3y^2+\sqrt{3}y^3$ (d)  $3x^4 + 7x^2 - 5$ 47. Which of the following expressions are polynomial in one variable ? (a)  $7x^2 - 3x + \sqrt{2}$ (b)  $3x^2 - 5x + 2$ (c)  $7x^2 - \frac{2}{3}$ (d) (x-2)(x-4)+y48. If p(x) = x+3, then p(x) + p(-x) is equal to : (b) 2x (a) 3 (c) 0(d) 649. The zeroes of the polynomial 5x(x+2)(x-3)are: (a) -2,0,3,5 (b) -2, 3 (c) 5,-2,3 (d) 0, -2, 350. The polynomial in x is  $x^2+kx+5$ , where k is a constant . ATx=2, the value of the polynomial is 15. What is the value of the polynomial at x= 5? (b) 18 (a) 3 (c) 35 (d) 45 51. If  $x^{51}+51$  is divided by x + 1, then the remainder is: (a) 0(b) 1 (c) 49 (d) 50 52. If we divide  $x^3+3x$  by x the result will be (a)  $x^{2}+3x$ (b)  $x^{3}+3$ (c) 2x+3(d)  $x^{2}+3$ 53. A polynomial is divided by (x-1). The quotient obtained is  $3x^3 - x^2 - x - 4$ , and the remainder is -5. Which polynomial meets these conditions? (a)  $3x^3 - x^2 - x - 9$ (b)  $3x^3 - x^2 - x - 4$ (c)  $3x^4 - 4x^3 - 3x + 4$ (d)  $3x^4 - 4x^3 - 3x - 1$ 54. The remainder when  $x^3+3x^2+3x+1$  is divided

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by x is:

(a) -1 (b) 1  $(c)\frac{1}{2}$ (d) 2 55. Quotient obtained on dividing  $8x^4-2x^2+6x-7$ by 2x+1 is  $4x^3+px^2-qx+3$ . Then: (b) q= -2 (a) p = 2(c) p = -2(d) q = 056. The polynomial (4x-3) is a factor of the polynomial  $q(x) 4x^3 + x^2 - 11x + 2r$ . What is the value of r? (a) 2 (b)3 (c) 4 (d) 11 57. The polynomial (x-a), where a > 0, is a factor of the polynomial  $q(x) = 4\sqrt{2}x^2 - \sqrt{2}$ . Which of these is a polynomial whose factor is (x - x) $\frac{1}{\alpha}$ ? (a)  $x^{2}+x+6$ (b)  $x^2-5x+4$ (c)  $x^{2}+4x-3$ (d)  $x^2 + x - 6$ 58. The polynomial (x-1) ios a factor of the polynomial  $x^4 - 2x^2 + kx + k$ , Where k is a constant. Which of these is the correct relation between *a* and *k*? (a) k =  $\frac{a^2(2-a^2)}{a^2}$  $a^{2}(2+a^{2})$ (c)  $k = \frac{a^2(2+a^2)}{1+a}$ (b) k =1+a $a^2(2-a^2)$ (d) k =(c)  $k = \frac{1-a}{1-a}$  (d)  $k = \frac{1-a}{1-a}$ 59. If  $x^2 + kx + 6 = (x+2)(x+3)$ , for all x, then the value of k is : (a) 1 (b) -1 (c) 5(d) 3 60. What is the common factor of  $x^3$ -x and  $-22x^{2}+142x-120?$ (a) x (b) (x-1) (c)  $x^2$ (d) 1 RAEBA SEMRI KOTHI, SUPER MARKET, RAEBARELI MOBILE NUMBER 9792972355