

કલ સમય :- ૬૦ મીનીટ

કલ પ્રશ્નો : ૫૦

વિદ્યાર્થીએ ટીક કરવાના પ્રશ્નો : ૩૫

નોંધ :વિદ્યાર્થીએ માત્ર ૫૫ પ્રશ્નો જ ટીક કરવાના રહેશે. જો વધારે ટીક કરેલ હશે તો પ્રથમ ૫૫ પ્રશ્નો જ ગણતરીમાં લેવામાં આવશે.

- (1) If a vector is to be represented in a three-dimensional system, does it have to get _____ components in that system of that vector?
 - a) 0
 - b) 2
 - c) 3
 - d) 1
- (2) The three-dimensional has 9 components. The number of components in the three-dimensional of such signs is denoted by _____?
 - a) 3^2
 - b) 3^1
 - c) 3^0
 - d) 3^3
- (3) Scales Zodiac signis called the tensor of _____ rank?
 - a) zero
 - b) equal
 - c) opposite
 - d) opposite each other
- (4) What is the relation between the linear velocity $\vec{v}_i$ angular velocity ω and the position vector $\vec{r}_i$ for any particle of a moving object?
 - a) $\vec{v}_i = \omega \vec{r}_i$
 - b) $\vec{v}_i = \frac{\omega}{r_i}$
 - c) $\vec{v}_i = \frac{r_i}{\omega}$
 - d) $\vec{v}_i = \frac{\omega^2}{r_i}$
- (5) If there are two centuries then their _____ multiplication is called tensor?
 - a) zero
 - b) opposite
 - c) equal
 - d) plain
- (6) $A \cdot (B \times C)$ Type multipliers are called _____ multiplication?
 - a) twice- vector
 - b) twice -Scales
 - c) tri- scales
 - d) tri- vector
- (7) The three equilibrium vectors are scalar multiplication _____?
 - a) zero
 - b) equal
 - c) opposite
 - d) opposite each other
- (8) The _____ of the primary cell can be determined by multiplying the scalar of the vectors?
 - a) Weight
 - b) Size
 - c) Shape
 - d) Perimeter
- (9) The product of parallel wealth for sodium metal is _____?
 - a) $\frac{a^3}{2}$
 - b) $\frac{a^1}{2}$
 - c) $\frac{a^0}{2}$
 - d) $\frac{a^2}{2}$
- (10) The size of the parallel wealth for gold crystals is _____?
 - a) $\frac{a^3}{4}$
 - b) $\frac{a^1}{4}$
 - c) $\frac{a^0}{4}$
 - d) $\frac{a^2}{8}$
- (11) Shift, linear velocity force The vector quantities associated with linear motion have _____?
 - a). odd parity
 - b) even parity
 - c) becomes above
 - d) none of the above
- (12) Vector quantities associated with angular displacement, angular velocity, torque etc. have _____?
 - a). odd parity
 - b) even parity
 - c) becomes above
 - d) none of the above
- (13) The vector obtained by multiplying the vector of two polar veins is _____?
 - a). Tri – scalar
 - b). Virtual scalar
 - c) .tri – vector
 - d). Virtual vector
- (14) is called _____ of vector region?
 - a). Zero- scalar
 - b). Tri-scalar
 - c) .divagers
 - d). Virtual vector.
- (15) The barrier in the R - L circuit and the inductor are connected to the battery of E volt by a special key K in what?
 - (a) In parallel
 - (b) in series
 - (c) In parallel- in series
 - (d) All the same
- (16) What is the function of inductor in R - L circuit?
 - (a) Supporting the change of current
 - (b) Opposing the change of current
 - (c) Changing the electric current
 - (d) All the same
- (17) What is the key used in R - L circuit?
 - (a) To increase the flow in the circuit
 - (b) To turn off the circuit
 - (c) To close the circuit empty
 - (d) All the same
- (18) What is the current passing through R - L circuit at $t = 0$?
 - (a) 1 Ampere
 - (b) 4 Ampere
 - (C) Zero
 - (d) All
- (19) R - L Which of Kichof's laws is used in closed circuit?
 - (a) First
 - (b) Second
 - (c) Third
 - (d) All the same
- (20) What is the difference in electrical potential between the two ends of the inductor?
 - (a) $L \, dI / dt$
 - (b) $L \, dQ / dt$
 - (c) dI / dt
 - (d) All
- (21) What is the difference in electrical potential between the two ends of the barrier?
 - (a) IV
 - (b) IR
 - (c) dQ
 - (d) All the same

- (22) In R-L DC circuit the value of current increases by what% of its maximum value
 (a) 53% (b) 63% (c) 73% (d) All the same
- (23) What type of decay curve is formed if time is plotted against current in R - C circuit
 (a) Parabola (b) Variable exponential (c) Square or perpendicular square (d) All the same
- (24) What is the D-stick method used for comparison?
 (a) Capacitance of capacitors (b) Resistivity (c) Variables (d) All
- (25) The equation for the increase of charge in the R-C circuit is ———?
 (a) $Q = Q_0 (1 - e^{-t/RC})$ (b) $v = Q_0 (1 - e^{-t/RC})$ (c) $Q = c (1 - e^{-t/RC})$ (d) All
- (26) The equation for electric current increase is ———?
 (a) $I = v (1 - e^{-Rt/L})$ (b) $I = R (1 - e^{-Rt/L})$ (c) $I = I_0 (1 - e^{-Rt/L})$ (d) All
- (27) The inductive time of the R-L DC circuit is constant $\lambda =$ ———?
 (a) $\lambda = L/R$ (b) $\lambda = C/R$ (c) $\lambda = R/L$ (d) all
- (28) Which of the following is the unit of obstruction?
 (a) ohm (b) ampere (c) electric charge (d) all
- (29) Taking the second and third bits from the left side of the binary they are taken as the _____ of the XOR.
 (A) Output (B) Input (C) Not all (d) All
- (30) $Y =$ _____ for 1001 in paritychecker
 A 1 B 4 C 0 D 8
- (31) Is it okay to add a full adder to your cascade?
 A half adder B parallel adde C full adder D Not at all
- (32) Which subtractor circuit eliminates two digits simultaneously?
 A full B half C becomes A and B. D Not at all
- (33) 0.110 The triangular number is converted to an equivalent decimal number.
 A 0.87 B 0.12 C 0.75 D 0.45
- (34) 10011 is found to convert a three-digit number to an equivalent decimal.
 A 20 B 22 C 19 D 25
- (35) 110101110100 The triangular number is converted to an equivalent number.
 A D75 B D73 C D74 D D71
- (36) 56 (decimal) is found in the octave.
 A 70 B 75 C78 D 80
- (37) What is the usefulness of the material?
 A Maxwellbridge B Sheringbridge C Owenbridge D Not at all
- (38) Can the quality of the capacitor be determined?
 A power factor B dissipation factor C flow factor D Not at all
- (39) The impedance of a medium Q-factor coil is measured at _____ bridge.
 A Sheringbridge B Maxwellbridge C A.C Bridge D Not at all
- (40) L What is it?
 A impedance B self-induction C capacitor D Not at all
- (41) What is AFO?
 A adder frequency oscillator B audio frequency oscillator
 C editor frequency oscillator D Not at all
- (42) What is the quality of a capacitor?
 A Powerfactor B Dissipation Factor C A.C Bridge D Not at all
- (43) At Sherigbridge, when the 10^3 Hz frequency is given from the AFO, minimal sound is heard in the headphones. If the circuit has $R_4 = 10$ K ohms $R_2 = 102$ ohms AND $C_3 = 0.01$ uF then multiply the capacitance C_1 .
 A 0.2uF B 0.8uF C 0.1 uF D 0.0.uF
- (44) What is the value of an unknown obstacle?
 A Maxwell B Shering C A.C. D Not at all
- (45) What is the equation of Maxwellbridge?
 A $L = R_2 R_4 C$ B $L = R_2 R_3 C$ C $L = R_2 R_5 C$ D Not at all
- (46) Is the energy stored in the self-motivating group?
 A $\frac{1}{2} Li^2$ B $\frac{1}{2} IL^2$ C $2 LI^2$ D $2 IL^2$
- (47) 1K memory =
 A 1500 B 1024 C 512 D 1000
- (48) $C_x = R_1 / R_2$ is the equation of C3.
 A Maxwellbridge B Sherigbridge C A.C Bridge D Not at all
- (49) 32 key words?.
 A C Language B B Language C BCPL D ALGOL
- (50) The value of A.C. bridge is found.
 A capacitor B impedance C conduction D Not at all