

BITSAT 7th Aug Memory-Based Questions – CollegeDekho Exclusive

- Solution of differential equation $(x+y+1) \frac{dy}{dx}=1$
- If force varies as linear function of x then Kepler's law would turn into?
- antonym of grand
- What is used in fixing photography
- Limit $x \rightarrow 0 \left(\frac{1-\cos x}{x} \right)$
- Which is not anti fluorite structure a) BaF_2 , b) CaF_2 , c) K_2O , d) Li_2O
- In photography, which compound is used as a fixing agent?
- Which of the factor do not affect mutual inductance?
- Structure of $\text{Ni}(\text{CO})_4$
- 3 masses are placed at the sides of an equilateral triangle with length b , what is the moment of inertia of the system passing through one of the mass
- Number of photoelectrons emitted if a beam of light of intensity 5 , area of cross-section 2 , when a light of wavelength 2480nm is incident on a metal for 2 seconds and only about 30% of it is absorbed by the surface of the metal. ($h \cdot c = 1240\text{eV}$)
- What property of light is used in optical fibre cables?
- Sodium stearate is Ans soap
- Interaction energy of H^+ ion is proportional to r^n then $n=?$
- if $2x+3y=k$ is the tangent to the ellipse $x^2+4y^2=1$ find the value of k
- If a drum is placed on a belt and pulled with a force F where is the position of the center of mass
- $\sin(\arccos(-1/2))$
- NaI in NH_3 forms wat compound, ans $[\text{Na}(\text{nh}_3)_4]\text{I}_3$
- For what value of A the expression $Ax^7+6x^6+5x^5+4x^4+3x^3+2x^2+x-2$ is divisible by $1+x+x^2$
- which is diamagnetic? options: (a) F_2^+ (b) O_2^{2-} (c) B_2^+ (d) C_2^-
- $\lim_{x \rightarrow 0} \frac{1-\cos x}{x}$
- Role of BHA ans is prevent oxidation to protect food
- If the coefficient of friction between a block and a table is 0.25 and it is moving with an initial velocity of 5 m/s after what distance will the block stop moving.
- If a^2, b^2, c^2 are in AP, then $1/a+b, 1/b+c, 1/c+a$ are in
- Question based on phasor diagram, RC circuit
- Find the number of ways in which the first 12 natural numbers can be arranged in 3 groups such that the numbers in each group are in AP
- the position vectors of three points are: $10\mathbf{i}+2\mathbf{j}$, $5\mathbf{i}-11\mathbf{j}$, $a\mathbf{i}+15\mathbf{j}$? find the value of a if these three vectors are collinear
- $\text{Mn}(\text{Co})_4$ structure
- Process of Removal of excess electrolyte is, ans is dialysis
- 2-ethylepoxy compound is treated with NH_3 and H_2O resultant?
- What is the mutual inductance between a coil placed in the X-Y axis and one placed in the Y-axis
- Bond angle order of $\text{SO}_2, \text{SO}_3, \text{SO}_4^{2-}$
- SI unit of decay constant a) Bq/s b) Bq , c) s , d) $1/\text{s}$

- If rydberg constant is same for all elements, the angular momentum and energy of Li^{+2} of which orbital is equal to angular momentum and energy of 1s orbital of hydrogen atom
- Similar word to nostalgia?
- Distinguished test for ethanol, propanol ans is iodoform test
- A pan is doing vertical SHM with frequency ν . A block of mass m is then added then the max amplitude such that it doesnt leave pan is?
- If sense of rotation of earth reverses, value of g at equator will
- Integral $(\log x)^2$ from 0 to 1
- Select which option doest have the pattern which the other 3 have: a)mumbai, b)delhi, c)madras, d)amritsa
- Complete the series 17-07-96, 24-07-96, 04-08-96, 07-09-96, ? Sol :) there is gap of 7 days then 14 days then 28 days, therefore the next term will be after 56 days...
- Mile to m^3 conversion