## TS EAMCET Question Paper 13 May 2023 Shift 1Memory Based Question PDF

Q1- Which of the following converts acetic acid to acetyl chloride?
Q2- What is the lowest energy of the spectral line emitted by the hydrogen atoms in the Laymen series?

Q3- An organic compound containing C and H has $92.3 \%$ of carbons. Its empirical formula is

Q4- X gram carbonate burnt in the air and the weight of the solid residue formed is 28 g . find the value of $x$

Q5- A body falls towards the earth freely, next another body is released. Find the distance between two bodies after 2 seconds ( $\mathrm{g}=9.8 \mathrm{~m} / \mathrm{s} 2$ )

Q6- A laser beam has an intensity of $2.1 \times 1015 \mathrm{~W} / \mathrm{m} 2$. The amplitude of the magnetic field in the beam in approximately is

Q7- A boat is sent across a river with a velocity of $8 \mathrm{~km} / \mathrm{hr}$. If the resultant velocity of the boat is $10 \mathrm{~km} / \mathrm{hr}$, then the velocity of the river is

Q8- Degree and order of the differential equation representing the family of parabolas
Q9- The number of ways of arranging the letters of the word LINEAR so that the letters N and $R$ do not come together and $E$ and $A$ come together is

Q10- There are n observations and all of them are negative numbers. The ascending order of these observations is $\mathrm{x} 1, \mathrm{x} 2, \ldots \ldots . . ., \mathrm{xn}$ If the signs of the first term and last term in that order are changed, then the range of the data is

Q11- A bag contains 3 white and 6 red balls. Four balls are drawn at a time randomly. Then the probability of getting at least two red balls is

Q 12- In triangle $A B C$ if $B C$ is the hypotenuse then $r 2+r 1=$ ?
Q 13- The number of 3-digit odd numbers divisible by 3 that can be formed using the digits 1.2. 3. 4. 5 . 6 when repetition is not allowed is

Q14- If L1 L2 and L3 are the chords of contact of the three points $(2,0) .(1,-2)$ and $(4,4)$ respectively with respect to the circle $x 2+y 2=3$, then L1 L2 L3 are

Q15- A boat of mass 1000 Kg goes from rest to speed $20.0 \mathrm{~m} / \mathrm{s}$ in 5.0 s . The water exerts a constant drag force and the acceleration of the boat is constant. If the average power required by the board is 45000 W , then the magnitude of the drag force is:

Ans- 500 N
Q 16- A cubic lattice has $A$ atoms at the body centre, $B$ atoms at the corners, and $C$ atoms at half of the face centres. The formula of the lattices

Q17- : There are n observations and all of them are negative numbers. The ascending order of these observations is $\mathrm{x} 1, \mathrm{x} 2, \ldots \ldots . . . \mathrm{xn}$ If the signs of the first term and last term in that order are changed, then the range of the data is

Q 18- What is the lowest energy of the spectral line emitted by the hydrogen atoms in the Laymen series?

Q 19- X gram carbonate burnt in the air and the weight of the solid residue formed is 28 g . find the value of $x$

Q 20- A body falls towards the earth freely, next another body is released. Find the distance between two bodies after 2 seconds ( $\mathrm{g}=9.8 \mathrm{~m} / \mathrm{s} 2$ )

Q 21- A laser beam has an intensity of $2.1 \times 1015 \mathrm{~W} / \mathrm{m} 2$. The amplitude of the magnetic field in the beam in approximately is

Q 22- An organic compound containing C and H has $92.3 \%$ of carbons. Its empirical formula is
Q 23- Which of the following converts acetic acid to acetyl chloride?
Q 24- In triangle ABC if BC is the hypotenuse then $\mathrm{r} 2+\mathrm{r} 1=$ ?
Q 25- The number of ways of arranging the letters of the word LINEAR so that the letters $N$ and $R$ do not come together and $E$ and $A$ come together is

Q 26- A bag contains 3 white and 6 red balls. Four balls are drawn at a time randomly. Then the probability of getting at least two red balls is

Q 27- The number of 3-digit odd numbers divisible by 3 that can be formed using the digits 1.2.
3. 4. 5 . 6 when repetition is not allowed is


