TS EAMCET Question Paper 13 May 2023 Shift 1-Memory 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 28g. 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 (g = 9.8 m/s2)

Q6- A laser beam has an intensity of 2.1×1015 W/m2. The amplitude of the magnetic field in the beam in approximately is

Q7- A boat is sent across a river with a velocity of <mark>8 km/hr. If the resultant velocity of t</mark>he boat is 10 km/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 x1, x2, ..., 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 ABC if BC 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 m/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 45000W, 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 x1, x2, ..., 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 28g. 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 (g = 9.8 m/s2)

Q 21- A laser beam has an intensity of 2.1×1015 W/m2. 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 r2 + r1 = ?

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

