MHT CET MEMORY-BASED QUESTION PAPER 2021
23 SEPTEMBER 2021

1. Find area of parabola y^2=4ax and limit is x=a
2. If 3sin2x=2sin3x then sinx=?
3. Write foot of normal to a line in vector
4. Area enclosed between y^2=8x and x^2=8y is a. 64/3 b. 16/3 c. 32/3 d. 8/3
5. Which protein is found in the nail?
6. int_0^1 |5x-3|=?
7. Point A, B was given. Write Eqn of a plane perpendicular to AB passing through the midpoint of AB
8. Find projection of a vector on b vector Vector given
9. In Simple cubic structure edge length =
10. int e^[(e^x)+x]=?
11. Order and degree of the differential eqn: $(d^2y/dx^2)^{1/3}=(dy/dx)^{1/2}$
12. $3\sqrt{y''}=\sqrt{y'}$ find order and degree? a. 2,2 b. 2,1 c. 2,3 d 1,3
13. Questions based on Ie= Ib+ Ic
14. The area formed by y²=8x and x²=8y
15. Integration 0 to π 1/4+3cosx dx ? a. Zero b. √7/2 c. -1 d. 2/√7
16. Monomers of terylene are?
17. The formula of rate constant for the zero-order reaction
18. The coin is tossed 100 times. What is the probability that the head comes even a number of times? a. 1/8 b. 3/8 c. 1/2 d. 3/4
19. Identify extensive property? Temperature/ Viscosity/ Surface Tension/ Heat capacity
20. Teflon is made with which monomer - tetrafluoroethane
21. A cell equation was given of nickel and copper and the question was asked that which of it is behaving as an oxidising agent.