

MHT CET Practice Questions 2023 (2)

1. Find area of parabola $y^2=4ax$ and limit is $x=a$
2. If $3\sin 2x=2\sin 3x$ then $\sin x=?$
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. $\int_0^1 |5x-3| dx=?$
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. $\int e^{(e^x+x)} dx=?$
11. Order and degree of the differential eqn: $(\frac{d^2y}{dx^2})^{1/3}=(\frac{dy}{dx})^{1/2}$
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 $l_e= l_b+ l_c$
14. The area formed by $y^2=8x$ and $x^2=8y$
15. Integration 0 to π $\frac{1}{4}+3\cos x dx$? a. Zero b. $\sqrt{7}/2$ c. -1 d. $2/\sqrt{7}$
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