

MHT CET Practice Questions 2023 (5)

1. Initiator of teflon polymer?
2. The formal charge on carbon monoxide is?
3. Nitrogen group is attached to which carbon in fructose?
4. Which of the following is the structure of the monomer of PVC?
5. Which of the following is homopolymer?
6. $\cos 2x = \sin x$, find the number of values of x
7. Which of the following converts glucose to saccharic acid?
8. What is heterolysis?
9. $\tan A$. $\tan 2B$. $\tan 3C$.
10. LPP $x \geq 0$ $y \geq 0$ $x + y = 5$ maximum value of $10x + 25y$ at... (x, y) [correct ans.(2,3)]
11. The minimum distance between 2 lines.. $[a+b+c \ b-a \ c]=?$
12. A plane $x/2 + y/3 + z/4 = 1$ makes intercepts A,B,C on x, y, z axes respectively. Find area ΔABC .
13. Find the vector equation of the plane given in the Cartesian form.
14. The slope of a line is 2 times the other. $[(h^2)/ab]=?$
15. If a polygon has 44 diagonals then the number of its sides are?
16. Integration of $\tan^{-1}(\sqrt{1+\sin x} / \sqrt{1-\sin x})$
17. Find dy/dx if $x = 1 - t^2/1 + t^2$ and $y = 2at/1 + t^2$.
18. $\sin^{-1}(dy/dx) = x + y$. Find a general solution.
19. The inverse of the matrix doesn't exist. Find k .
20. Find $|A^{-1}|$. (Matrix)
21. Integ.0 to 1 $[\tan^{-1}(1-2x/1-x+x^2)]$
22. The probability table was given in form of k . $K=1/25$. Find $P(2 \leq x \leq 5)$
23. The standard deviation of a set of 6 is 23.33. Each of the elements is multiplied by 2. Find new SD.
24. 3 coins were tossed. X is getting the difference of heads and tails as 1. Find $P(x=1)$
25. $E(x)=18$ $V(x)=12$ Find n .
26. 3 conditions were given. X is continuous/discontinuous at?
27. Limit $x \rightarrow 0$. 2 times L Hospital.
28. The rectangle of the max area is to be fit in an ellipse. Find its sides.
29. $x = 1 + i$. Find $x^3 + 7x^2 - x + 16$
30. Solid sphere and cylinder have equal KE. Find relation in L .

