

MHT CET Practice Questions 2023 (3)

1. Find Dy/dx if $x=1-t^2/1+t^2$ and $y=2at/1+t^2$
2. Integration of $\tan^{-1}(\sqrt{1+\sin x}/\sqrt{1-\sin x})$
3. If a polygon has 44 diagonals then the number of its sides are?
4. $\tan A \cdot \tan 2A \cdot \tan 3A = ?$
5. The escape velocity of a planet whose mass is 6 times of earth and radius is $(1/2)$ times of earth
6. Bismuth has a half-life period of 5 days. Mass is 1000mg. What does mass remain after 30 days?
7. Unit of the order of a reaction given and tell the order of reaction
8. Which element belongs to the oxygen family?
9. Which is highly acidic?
10. Which material is used to make floor tiles
11. Benzene 1,2 diol commonly called as
12. Find dimensions of a rectangle inscribed in ellipse $x^2/25+y^2/16=1$ having a maximum area
13. Which of the following are known as transition elements?
14. The difference in the number of the atomic mass of homologous series
15. Integration of $x \sin x / 1 + \cos^2 x$ between limits $-\pi$ to $+\pi$
16. HDPE is used to make (floor tiles)
17. Which of the group elements are known as transition elements?
18. Find the shortest distance between two lines?
19. Find n if $\text{mean}=18$ and $\text{Var}(X)=12$
20. What is the formula of atom economy?
21. What is the gravity of object R above the surface of earth whose radius is R