

## MHT CET Practice Questions 2023 (1)

- 1. Which of the following is a soft metal?
- 2. Area under curv x=y and x = -1 x = 2
- 3. Which of following is alpha amino acid
- 4. If A adj = [-10 0 0] [0 -10 0] [0 0 -10] Then |A| =?
- 5. Lesser acidic from, HF HCI HBr HI
- 6. Polymer used for the shopping bag
- 7. The polymer of the tyre? A.Neoprene, B.SBR
- 8. The maximum area of the rectangle in the circle of radius r
- 9. a.sin(thita) =b.cos(thita) then acos2thita+bsin2thita= A. a/b
- 10. Volume of bcc lattice
- 11. What product is formed when vapour of phenol and hydrogen is passed over nickel catalyst (Ans . Cyclohexanol)
- 12. A stone is projected in two ways : 1) Vertically upwards with velocity V. 2)With an velocity V which has angle 60 degree with vertical. What is the ratio of their Potential Energies at the highest point.
- 13. Integration of { x.[x] dx} from 0 to 4, wher [ ] is greatest integer function.
- 14. If velocity is given by 6t-t<sup>2</sup>/2, distance at t=0 is 0 then what is its distance at t=3 sec?
- 15.  $|\bar{a}|$ =5, |b|=4,  $(\bar{a}$ +kb) and  $(\bar{a}$ -kb) both are vectors which are perpendicular to eack other.Vlaue of k equals:
- 16. Equation of pair of straight lines is  $ax^2 + bxy y^2 = 0$ , what is the tangent of the angle between the two straight lines.[Ans. b+(1+a)]
- 17. Two particles of mass m are attached to ends of a massless rod of length I and are in rotation. The radius of gyration for axis through midpoint of the rod is k and angular momentum of this body is L. Then what is the angular frequency of the rotating body
- 18. In a triangle with usual notations a<sup>2</sup>, b<sup>2</sup>, c<sup>2</sup> are in a.p. then the value of sin 3B ÷ sin B equals
- 19. Circle with centre (2,5) has a chord whose midpoint is (1,2) what is the eqquation of the chord.