MHT CET 2023 Question Paper May 9 Shift 2 (Memory-based)

Question 1. What is bond enthalpy? Question 10. Find $\int (\cos \sqrt{x})\, dx = ?$

Question 2. Find the Current unit conversion from SI to CGI.

Question 3. Two lines $2x = 3y = -z$ and $6x = -y = -4z$ intersect at a point, then find the angle between them.

Question 4. What is the IUPAC name of propylene glycol?

Question 5. Find the ratio of the t_0 and t for a first-order reaction.

Question 6. If Bromopropane and Bromomethane were treated with sodium and ether, then what is the product?

Question 7. Find the number of electron bonds in H_2SO_4.

Question 8. At the pure inductive stage, find e_{max}.

Question 9. ΔH and ΔS were given, find ΔG (Gibbs energy)?

Question 10. What is the oxidation number of nitrogen?

Question 11. Find the approximate value of $(25.2)1/2$.

Question 12. If mutual inductance $M = 3H$, $L1 = 4H$, $L2 = 9H$, then the coefficient of coupling will be equal to?

Question 13. Find the value of dx
$\int \sin 2x \cos 2x\, dx = ?$

Question 14. Find the equivalent of p $\wedge$ (q v r) v ~ (r $\wedge$ ~ (p $\wedge$ q)).

Question 15. Find tan-1[(1 - sinx + cosx)/(1 + sinx - cosx)] = ?

Question 16. Which of the following has the highest Boiling Point? (A) Chloromethane
(B) Fluoromethane
(C) Bromomethane
(D) Iodomethane

Question 17. Which of the following is a trisaccharide?
(A) Maltose
(B) Lactose
(C) Raffinose
(D) Stachyose

Question 18. A man takes a step forward with probability 0.4 and backward with probability 0.6. The probability that at the end of eleven steps he is one step away from starting point is?

Question 19. Diagonal relationship of Be is with which element?