

(b) Attempt any ONE of the following :

(i) Evaluate $\int_0^1 x^2 (1-x)^{\frac{3}{2}} dx$ (3)

(ii) Evaluate : $\int_0^{\pi/4} \frac{\sin 2x}{2 + 2 \sin^2 x + \cos^2 x} dx$ (3)

(B) Attempt any ONE of the following :

(i) Evaluate : $\int \frac{\sec^2 (\log x)}{x} dx$ (2)

(ii) Evaluate : $\int \frac{dx}{1 + \cos 2x}$ (2)

Q. 4 (A) (a) Attempt any TWO of the following : [8]

(i) Differentiate $\sin^{-1} \left(\frac{2x}{1+x^2} \right)$ w.r.t. $\cos^{-1} \left(\frac{1-x^2}{1+x^2} \right)$ (3)

(ii) If $y = e^{m \cdot \tan^{-1} x}$ then show that,
 $(1+x^2) \frac{d^2 y}{dx^2} + (2x-m) \frac{dy}{dx} = 0$ (3)

(iii) Find approximately $\sin 31^\circ$, given that $1^\circ = 0.0175^\circ$ and $\cos 30^\circ = 0.8660$ (3)

(B) Attempt any ONE of the following :

(i) Divide 20 into two parts so that their product is maximum. (2)

(ii) If $x = \cos (xy)$, find $\frac{dy}{dx}$. (2)

Q. 5 (A) Attempt any ONE of the following : [8]

(i) Evaluate : $\lim_{x \rightarrow \frac{\pi}{4}} \frac{1 - \tan x}{\pi - 4x}$ (3)

(ii) Evaluate : $\lim_{x \rightarrow e} \frac{\log x - 1}{x - e}$ (3)

(iii) Find the value of 'K',
 if the function $f(x) = \frac{1 - \cos kx}{x - \sin x}$, for $x \neq 0$
 $= 2$, for $x = 0$
 is continuous at $x = 0$. (3)

(B) Attempt any ONE of the following :

(i) If B is a Boolean algebra and $x \in B$, then show that $x + x = x$ (2)

(ii) Draw the switching circuit of the Boolean expression : $[a \cdot b' \cdot (c + d)] + [a' \cdot (b + c)]$ (2)

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