- 1. $\int\limits_{0}^{\frac{\pi}{2}} \frac{\sin x \cos x}{1 + \sin x \cos x} dx$ is equal to:
 - (a) π
 - (b) Zero(0)
 - (c) $\int_{0}^{\frac{\pi}{2}} \frac{2\sin x}{1+\sin x \cos x} dx$
 - (d) $\frac{\pi^2}{4}$
- 2. Find : $\int \frac{e^{4x} 1}{e^{4x} + 1} dx$
- 3. Evaluate: $\int_{2}^{\infty} -2\sqrt{\frac{2-x}{z+x}} dx$
- 4. Find: $\int \frac{1}{x[(logx)^2 3logx 4]} dx$
- 5. Find: $\int x^2 \cdot \sin^{-1}(x^{\frac{3}{2}}) dx$