

B.R.HARNE COLLEGE OF ENGINEERING & TECHNOLOGY
KARAV VANGAN

SUB: AM-II(A)

UNIT TEST I

MARKS:20

Class:FE

Date:28/02/2014

NOTE:Attempt any 4.

Q1.	Evaluate $\int_0^{\infty} x e^{-x^8} dx$; $\int_0^{\infty} x^2 e^{-x^8} dx$	5
Q2.	Evaluate $\int_0^{\pi} \frac{\sin^4 \theta}{(1+\cos \theta)^2} d\theta$	5
Q3.	Evaluate $y(2xy+1)dx + x(1+2xy-x^3y^3)dy=0$	5
Q4.	Evaluate $dx + x dy = e^{-y} \sec 2y dy$.	5
Q5.	Evaluate $(x^3y^3+xy)dy=dx$	5
Q6.	Evaluate $(x^4e^x-2mxy^2)dx + 2mx^2y dy=0$	5

$$\frac{d\theta}{2} = t$$

$$d\theta = 2dt$$

$$d\theta = 2dt$$