Quiz 2 Date 18 - 1 20	24
Name: Saad Nisas Butt	
Reg. no: CS 211246.	
Clas: BSCS-5B.	
Course: Differential Equations.	
Solve the following equations:	
Solve the following equations: Dy'ty=y-1/2.	
= dy + P(x) y = Q(x) y , n + 0 ca 1 dn is a warn linear DE	
The first the second of the se	
Divide the equation by y-1/2.	
$\frac{y'}{y^{-1/2}} + \frac{y}{y^{-1/2}} = \frac{y^{-1/2}}{y^{-1/2}}$	3
y + 1 = 1 y-1/2 y-1/2-1	
9-1/2 9 12	
$y^{-1/2}$ $y^{-3/2}$ = 1 -0.	
Let $u = 1$ $y^{-3i2} - \textcircled{m}$	
dy = 2 11/2 11	
dy 2	
u' = 3 1 4'	
2 4-1/2	
2 1 9 3	
3 y-1/2 -15 2u' + 3u = 1	
Substitute (A) en (B) in (D) 2 (u) + 3 y) = 1	
$201 \pm 4 = 1$	
3	
v' + 3u = 3	
	-
equation is in linear fory of + P(M)y & Q1	1)
Teacher's Signature RAZA Paper Products Page No.	7
	7





