Department of Mathematics and Statistics (KFUPM) Math-333 Semester - 181QUIZ III

NAME:	S.No.	ID:
Maximum Marks: 08	Section:04	Time Allowed: 40 minutes
(1) Evaluate		
$(i) \mathcal{L}\{t \ e^{(-2t)}\}$	$(ii) \mathcal{L}^{-1}(\frac{2s+3}{s^2+s+1})$	

(2) Use **Convolution Theorem** to find inverse Laplace transform of $G(s) = \frac{1}{s^2(s+1)}$. (3) Solve the DE : $y'' - y' - 2y = \delta(t-2)$, y(0) = 1, y'(0) = 1.