

Tut 2 : Inverse Laplace Transform / AM III SE(EXTC)/Module 2 / CO 1/ 2nd Aug 2019/ Even Roll Nos.
Total marks 20

Note : Each question carry equal marks

1. Find $L^{-1}\left(\frac{2s}{(2s-1)^2}\right)$ (6 marks)
2. Find $L^{-1}\frac{s^2}{s^4+9s^2+20}$ (7 marks)
3. Using convolution theorem evaluate inverse Laplace transform of $\frac{s^2+s}{(s^2+1)(s^2+2s+2)}$ (7 marks)

(2 marks + 7 marks + 7 marks)

(11)

Laplace Transform / AM III SE(EXTC)/Module 1 / CO 1/ 17th July 2019/ Odd Roll Nos.
Marks 20

✓ 1. Find $L^{-1}\left(\frac{s+2}{s^2-4s+13}\right)$ (6 marks)

✓ 2. Find $L^{-1}\frac{s^2+2s+3}{(s^2+2s+2)(s^2+2s+5)}$ (7 marks)

✓ 3. Using convolution theorem evaluate inverse Laplace transform of $\frac{s}{(s^2+4)(s^2+9)}$ (7 marks)

odd

even

① $e^{-2t} \cos 3t$

① $\frac{e^{t/2}}{2} [1 + t/2]$