

8 Find a. $L^{-1}\left\{\frac{s}{(s+4)^2}\right\}$ b. $L^{-1}\left\{\frac{s+2}{s^2-4s+13}\right\}$ c. $L^{-1}\left\{\frac{3+4s}{9s^2-16}\right\}$ (C.O.NO. 1) [Comprehension]

9. Find the Z transform of $x(n) = \{1,2,3,2\}$ and R.O.C of the signal (C.O.NO. 2) [Comprehension]

Part C [Problem Solving Questions]

Answer all the Questions. Each question carries 8 marks. (3Qx8M=24M)

10. a) State the conditions for a signal to be admitted as a mother wavelet – 02 M

b) Discuss briefly various forms of wavelet transforms – 06 M (C.O.NO. 2) [Application]

11. Describe the working of Discrete wavelet transforms in signal and image processing (C.O.NO. 2) [Application]

12. Explain the advantages of wavelet transforms over other existing integral transforms. (C.O.NO. 2) [Application]