Engineering Mathematics-III_Previous year question paper analysis

Statistical Techniques: 19-20 → 1) spearman's rank correlation

2) Karl Pearson's coefficient of correlation

3) Question of regression lines

4) Fit a straight line or fit a parabola

Complex Variables: 16-18 → 1) Determine the constants a, b, c, d, e

2) Milne Thomson method(u/v/u+v/u-v is given)

3) Find orthogonal trajectories

Fourier Series: 22-27 → 1) Even/odd Fourier series

2) Half range sine/cosine series

3) fourier series in any interval

Laplace Transform: 18-20 → 1) find L.T of function using definition/formula

2) Evaluation of integration $\int_0^\infty \ldots\ldots$.

Inverse Laplace Transform: 14-16 → 1) Partial fraction

2) Convolution theorem

3) ILT using First shifting Theorem

Probability Distribution: 18 → 1) Question on Pmf & pdf

2) Question on finding Mean, variance, MGF.

3) Question on Conditional probability