

04/06/26.

- Q6. (a) From the following data calculate Spearman's rank correlation coefficient R between X and Y [4]

X	61	63	65	67	69
Y	64	62	66	70	72

- (b) If $f(z) = (ax^2 + axy + by^2) + i(cx^2 + dxy + y^2)$ is analytic function then what is the value of a,b,c,d. [5]

- (c) Expand Fourier series for $f(x) = \left(\frac{\pi-x}{2}\right)^2$ in $(0, 2\pi)$. [6]
