

Rajiv Gandhi Institute of Petroleum Technology, Jais

(राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान, जायस)

Department of Mathematical Sciences

(गणितीय विज्ञान विभाग)

Subject: Statistical Methods & Data Analysis (MA 231)

Instructor: C. Kundu

Answer-key of Practice Sets (2024-25)

Practice Set # 1&2

Q.	1	2	3	4	5	6	8	9	10	11	12	13	14	16
A.	0.167	0.302	0.90625	0.72	.4, .5,.8	.585, .78	.656	.2, .2,.6	.7,.3125, .5,.1875	0.5833 0.636	3.62 2.2156	Yes	n	170

Practice Set # 3

Q.	1	2	3	4	5	6	7	8	9	10	11	12
A.	0.5339 0.4661	22	0.0197	11	$\binom{2n-i}{n} \left(\frac{1}{2}\right)^{2n-i+1}$	0.022 .9851 33.33	0.185 0.608 0.593	0.2231 0.1912	9802 9998 2	0.9998	8.75	0.08 1 0.99

Practice Set # 4

Q.	1	2	3	4	5	6	7	8	9	10	11
A.	0.5 0.3 0.4	34.64 0.042 0.125	.3935 .2231 .3834	.393 .993	.1587 .06357	0.2266	.2537 .121 .1489	50.1744 19.3798	.0749 .9097	.1003 1.65 4.482,128.33	$e^{\mu+\sigma^2/2}$ $e^{2\mu+\sigma^2} (e^{\sigma^2} - 1)$