

द्वैती अधिव्या विश्वविद्यालय इन्दौर
(Regular) छात्रों के लिए

Class: BCA II Semester

Paper: Statistics - II

Attempt all the five questions. Each Question carry equal marks.

Q.1 Explain four criteria's of a Good Estimator? (with examples) Also discuss properties of Maximum Likelihood Estimator? What is Cramer Rao inequality?

Q.2 State and Prove Neymanns Pearson's fundamental lemma? Also explain its applications.

Q.3 Define Beta Distribution. For Beta distribution of either Ist kind or Second kind. derive expressions for
a) μ_r the r th moment about origin b) Mean & variance

Q.4 Describe various types of non-parametric tools used in data analysis.

Q.5 From following data, perform '2 way' analysis of variance at 5% level of significance to test whether mean productivity different Brand is same & workman are similar w.r.t productivity

		Machine Brand				
		A	B	C	D	E
	1	33	32	31	27	42
	2	38	40	37	32	36
	3	36	42	35	24	35
	4	40	38	33	18	29
	5	31	30	34	25	32
	6	35	34	30	20	30