

BUSINESS STATISTICS

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Bcom (Comp)
II Year
Roll no: 49

28/3/18

UNIT-III TEST

1) Using the simple average method find the Seasonal indices.

Year	Q ₁	Q ₂	Q ₃	Q ₄
2007	72	68	80	70
2008	76	70	82	74
2009	74	66	84	80
2010	76	74	84	78
2011	78	74	86	82

2)

Year	Q ₁	Q ₂	Q ₃	Q ₄
1984	20	40	60	80
1985	30	30	40	90
1986	40	60	30	120
1987	50	50	70	150

3) Find the Seasonal indices by using ratio to moving averages.

Year	I	II	III	IV
1985	68	62	61	63
1986	65	58	61	61
1987	68	63	63	67

4)

Quater / Year	1995	1996	1997	1998
Q ₁	75	86	90	100
Q ₂	60	65	72	78
Q ₃	54	63	66	72
Q ₄	50	55	60	67

distrⁿ bⁿtion.

Bcom II year (Unit-II)

- 1) Define Index number and its Importance
- 2) Types Explain types of Index numbers
- 3) From the following data compute i) Laspeyres
ii) paschels iii) fishes iv) marshall edgeworth
v) dorbish

Commodity	quantity		value	
	2005	2010	2005	2010
A	100	150	500	900
B	100	100	320	500
C	80	72	150	360
D	60	33	360	297

- 4) what is meant by consumer price index number and what are its uses?

(Unit - 2) Bsc 1 year (statistics)

- 1) Define binomial distribution and its mean & variance and also derive m.g.f and p.g.f
- 2) Derive the Recurrence relation moments of binomial distribution
- 3) Show that poisson distribution and its limiting case of binomial distribution
- 4) Define poisson distribution and derive the recurrence relation for moments of poisson distribution.

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Statistics
unit tes. II (B)

B. Kothra
BBA (1st yr)

1) Find the M.D about mean, median, mode & its coeff.

marks less than	80	70	60	50	40	30	20	10
No. of stud	100	90	80	60	32	20	13	5

2) factory:

	1	2	3	4	5	6	7	8	9	10	11	12
P	300	500	450	540	490	530	600	460	410	560	590	450
Q	700	600	200	150	1500	1000	900	800	100	250	950	850

more ethnic efficient (find co-variance)

3) Bowley's Coefficient of skewness.

variable	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-
freq	12	16	26	38	22	15	7	4

4) calculate Skp

Age Group	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
f	18	16	15	12	10	5	2	1

BSc II year (Statistics) B. Vysnani

- ① Define large sample and Critical Values and explain the procedure for testing of hypothesis
- ② Explain the test for two proportions and test for a single mean.
- ③ Explain the large sample for Correlation Coeff^{ts}
- ④ Two Random samples drawn from two Countries give the following data relating to the heights of the males

	Country - I	Country - II
Sample size :	1000	1200
mean height :	67.42	67.25
90/20 S.D :	2.58	2.50

- (i) Is the diffⁿ b/w the means is significant?
- (ii) Is the diffⁿ b/w the S.D's is significant.