SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA

SEMESTER END EXAMINATIONS (REGULAR) NOVEMBER - 2016

M.PLANNING (EPM & URP) - I YEAR I SEMESTER

PLANNING TECHNIQUES AND QUANTATIVE METHODS (MPIS104)

Maximum Marks – 50   Time – 2.00 Hours

a) Answer any <u>Two questions out of 1 to 4</u> questions.
b) Question No.5 is compulsory and <u>answer any four</u> out of six sub-questions.
c) Scientific Calculator is allowed.

Q1. From the prices x & y of shares A & B respectively given below, state which share is more (15M)
stable in value:

Price of Share A(x) :	55	54	52	53	56	58	52	50	51	49
Price of share B(y) :	108	107	105	105	106	107	104	103	104	101

Q2. By using the following data, find out the 2 lines of regression & from them compute coefficient (15M)
of correlation.
$\Sigma x = 250$; $\Sigma y = 300$; $\Sigma xy = 7900$; $\Sigma x^2 = 6500$; $\Sigma y^2 = 10000$ & $N = 10$

Q3. Compute price index & quantity index numbers for year 2000 with 1995 as base year, using;
    a) Laspeyre's Method   (15M)
    b) Paasche's Method
    c) Also compute Fisher's Price & quantity index numbers.

Commodity	Quantity (units)		Values (Rs.)	
	1995	2000	1995	2000
A	100	150	500	900
B	80	100	320	500
C	60	72	150	360
D	30	33	360	297

Q4. A manufacturer claimed that at least 95% of equipment which he supplied to a factory
conformed to specifications. An examination of a sample of 200 pieces of equipment revealed (15M)
that 18 were faulty. Test this claim at a significance level of (i) 0.05 (ii) 0.01. (Significant value
of Z at 5% Los = -1.645 & critical value of Z at 1% Los = -2.33)

Q5. Write short notes on any FOUR of the following.   (4x5=
    20)
    a) Types of scale
    b) Stratified Random Sampling with examples
    c) Systematic sampling with examples
    d) Simple random sampling with examples
    e) Find probability that in 5 tossing's, a perfect coin turns up head at least 3 times in
       succession.
    f) Four cards are drawn at random from a pack of 52 cards. Find probability that two are red
       & two are black.

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