

R05

Code No: MA103**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MBA - I Semester Examinations, January 2011****STATISTICS FOR MANAGEMENT****Time: 3hours****Max. Marks: 60**

Answer any five questions
All questions carry equal marks

1. Comment briefly on the following statements
 - a) "Statistics is the science of human welfare
 - b) To a very striking degree our culture has become a statistical culture
 - c) Statistical thinking will one day be as necessary for efficient citizenship as the ability to read and write.
2. Distinguish between Primary data and Secondary data. State the chief sources of Secondary data. What precautions are to be observed when such data are to be used for any investigation ?
3. a) Distinguish clearly between sampling and non – sampling errors. Is it true to say that non-sampling errors do not arise in a sample survey? How will you control these errors?
 b) Discuss the various methods of drawing the random sampling from a finite population.
4. From the following data of income distribution, calculate arithmetic mean, median and Mode and draw the inferences.

Income (Rs.)	No. of Persons
Below 30	16
Below 40	36
Below 50	61
Below 60	76
Below 70	87
Below 80	95
Below 90	05

5. Fit a straight line trend by the method of least Squares and estimate the values for the years 2012 and 2014.

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Earning:	38	40	65	72	69	60	87	95	98

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6. Calculate the co-efficient of correlation between ages of husbands and wives and its probable error from the following.

Ages of Wives (years)		Ages of Husbands (years)				
	20-30	30-40	40-50	50-60	60-70	Total
15-25	5	9	3	-	-	17
25-35	-	10	25	2	-	37
35-45	-	1	12	2	-	15
45-55	-	-	4	16	5	25
55-65	-	-	-	4	2	6
Total	5	20	44	24	7	100

7. The following Table gives the monthly expenditure of two families A and B. Compare these figures of a Suitable diagram.

Item of expenditure	Family A	Family B
	Income (Rs)	Income (Rs)
Food	500	800
Clothing	140	240
House Rent	80	160
Education	100	120
Fuel and Lighting	40	40
Miscellaneous	40	80

8. Three Varieties of wheat A, B and C, were treated with four different fertilizers 1, 2, 3 and 4. The yields of wheat per acre were as under:

Fertilizers	Varieties of Wheat			
	A	B	C	Total
1	55	72	47	174
2	64	66	53	183
3	58	57	74	189
4	59	57	58	174
Total	236	252	232	720

Perform and Analysis of Variance on the above data and interpret the results.
