DOON UNIVERSITY, DEHRADUN

First Semester Examination, 2014

School of Social Sciences

Msc. Economics Integrated

Course Code: SSEI-114 Statistical methods

Time Allowe Note: Attemp		s from Section	s A & Section	on B & any	Maxi two questio	mum Mar ns from S	ks: 30 ection C			
1. A gra	ttempt all que ph used to sho cation of data	estions) w a distribution is-not-possible	of cumulati	ve frequenc	y is called_	(1,	*5=5)			
3. A san 4. Arran	ple comprises ging data in an	of array is necess sive series to in	characterist ary condition	tics as of the	Census.	•				
 In a class of 60 students, 20% scored more than 90 in mathematics, 35% scored more than 90 in statistics, 25% were debarred and were not allowed to sit in the examination. Rest of the children equally scored in English & Computers. With the above data, use an appropriate graph and show them diagrammatically. Also calculate how many students were there in each category. In a firm, a letter is typed by Ankit in 4minutes, by Mohit in 5minutes, by Sangeeta in 6 minutes & by Kapil in 10 minutes. What is the average time taken in completing one letter? How many letters do you expect to be typed in 6 hours?										
Marks No. Of Stude	0-20	20-40	40-60	10	80-100	100-120	120-140			
1. If the value of median is 49.09, calculate the missing terms. The total number of students is 80. (4 marks) 2. Calculate the geometric mean of the following price relatives:- (3 marks)										
Commodity Price Relative	Wheat 237	Rice 198	Pulses 156	Sugar 124	Salt 107		Oils 196			

1.100 students appeared for the final exams. Calculate the average deviation through mean & median from the following data & verify the answer:

	i	T						,
Marks	Less	Less	Less	Less	Less	Less	Less	Less
(Less than)	than 80	than 70	than 60	than 50	than 40	than 30	than 20	
No of Students	100	90	80	60	32	20	13	5

2. Calculate the value of mode through analysis table from the data given below:

Travel Time	More	More	More	More	More	More	More	More
	than 0	than 10	than 20	than 30	than 40	than 50	than 60	than 70
Frequency	218	216	200	168	133	62	23	3

Also specify that whether the value of modal class lies in the same group by inspection method & analysis table or not?

- 3. For a group of 5000 shopkeepers, the daily earnings vary from Rs200 to Rs.800. the earnings of 4 percent of the shopkeepers are under Rs250 and those of 10 percent are under Rs.300; 15 percent of the shopkeepers earn Rs.600 and over and 5 percent of them earn Rs.700 and over. The quartile earnings are Rs.400 & Rs.540 and the sixth deciles is Rs 500.
 - a) Put this information in the form of frequency table.
 - b) Also find out the median value of the data by putting them in class interval of 100 starting from 200 up till 800.