DOON UNIVERSITY, DEHRADUN
First Semester Make Up Examination, 2014
School of Social Sciences
Msc. Economics Integrated
Course Code: SSEI-114 Statistical methods

Time Allowed: 2 Hours   *Maximum Marks: 30*

Note: Attempt All Questions from Sections A & Section B & any two questions from Section C

Section A (Attempt all questions)   (1*5=5)

1. What is a frequency polygon?
2. Verification of data is possible if the data is _____
3. Difference between census & sample.
4. What are the five stages of data collection?
5. Which type of data is time consuming & expensive & why?

Section B (Attempt all three questions)

1. Find the value of mode if the value of mean is 65.44 & that of median is 72.67   **(3 marks)**
2. The mean monthly salary paid to all employees in a company is Rs 16000. The mean salary paid to technical 7 non technical employees is Rs.18000 7 Rs12000 respectively. Determine the percentage of technical & non technical employees.   **(4 marks)**
3. An incomplete distribution is given below, find the missing frequencies and calculate the arithmetic mean by direct method.

Marks	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. Of Students	12	30	?	65	?	25	18

If the value of median is 46, calculate the missing terms. The total number of students is 229, find the missing frequencies.   **(4marks)**

4. Calculate the geometric mean of the following price relatives:-   **(4 marks)**

Commodity	Wheat	Rice	Pulses	Sugar	Salt	Oils
Price Relative	146	184	136	142	170	169

Section C (Long questions. Attempt any 1 question)   (1*10=10)

1. Calculate the value of mean deviation through median from the following:

Age	18-22	22-26	26-30	30-34	34-38	38-42	42-46	46-50	50-54	54-58
No of workers	120	125	280	260	155	184	162	86	75	53

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

Profits(Crores)	Less than 10	Less than 20	Less than 30	Less than 40	Less than 50	Less than 60	Less than 70	Less than 80
No of Companies	4	16	40	76	96	112	120	125

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