MSW
Third Semester (Repeat)
STATISTICAL ANALYSIS & COMPUTER APPLICATION
IN SOCIAL WORK
(MSW - 13)

Duration: 1.5 Hrs.

Full Marks: 35

Part-A (Objective)= 10
Part-B (Descriptive)= 25

(PART-B: Descriptive)

Duration: 1 hrs. 20 mins.

Marks: 25

I. Answer any *five* of the following questions:

$5 \times 5 = 25$

1. What is the difference between Primary data and Secondary data?

2. Find mode and median of the following distribution

C. I. :	$10 - 20$	$20 - 30$	$30 - 40$	$40 - 50$	$50 - 60$
Frequency:	5	30	40	20	5

3. Find CV of the following distribution.

Marks :	$10 - 20$	$20 - 30$	$30 - 40$	$40 - 50$	$50 - 60$
No of Students:	3	9	13	19	6

4. Find the Karl Pearson's coefficient of correlation between X and Y

X :	25	32	41	53	64	79	80
Y :	40	53	66	80	92	78	100

5. Write the difference between correlation and regression.

6. Define Null Hypothesis, Alternative Hypothesis, Testing of Hypothesis, Type I and Type II errors.

7. The following table gives the classification of 100 inhabitants according to their skilled. Test whether their skills are independent of sex?

	Skilled	Unskilled
Male	40	20
Female	25	15

(Given $\chi^2_{0.05,1} = 3.84$)

8. Write in brief how is SPSS helpful in analysis of statistical data.

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Duration: 10 minutes   **Marks – 10**

(PART A - Objective Type)

I. Choose the correct answer: **1×10=10**

1. Normal distribution is a symmetrical distribution due to
   - (a) Mode = 3 Median – 2 Mean
   - (b) Mean≠ Median ≠ Mode
   - (c) Mean = Median = Mode
   - (d) None of these

2. Which of the following statements is not true?
   - (a) Exclusive class limits and class boundaries are not equivalent.
   - (b) Inclusive class limits and class boundaries are not equivalent.
   - (c) Exclusive class limits and inclusive class limits are not equivalent.
   - (d) None of these.

3. Degree of freedom (d.f) is associated with
   - (a) t- test
   - (b) χ^2 – test
   - (c) both (a) and (b)
   - (d) None of these

4. Which of the following is the best measure of dispersion?
   - (a) Mean
   - (b) Median
   - (c) Mean Deviation
   - (d) Standard Deviation

5. _____can be determined graphically.
   - (a) AM   (b) GM   (c) HM   (d) Median

6. Which of the following measures of dispersion ignores the algebraic negative sign?
   - (a) Standard deviation
   - (b) Mean deviation
   - (c) Coefficient of variation
   - (d) Range

7. If the correlation between two variables X and Y is zero, then the regression coefficient of X on Y is
   (a) Positive
   (b) negative
   (c) zero
   (d) not certain

8. Chi-square (χ^2) test is a
   (a) Parametric test
   (b) Non-parametric test
   (c) Both (a) and (b)
   (d) None of the above

9. Which of the following tests is considered as a large sample test?
   (a) Z – test
   (b) t – test
   (c) χ^2 – test
   (d) All

10. SPSS is created by
    (a) IBM
    (b) Microsoft
    (c) None

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