STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 86
(For candidates admitted during the academic year 2009–2010thereafter)

                                          SUBJECT CODE: SW/PC/SS24
M.S.W. DEGREE EXAMINATION APRIL 2011
SOCIAL WORK
SECOND SEMESTER

COURSE : CORE
PAPER   :   STATISTICS & DATA PROCESSING IN SOCIAL WORK
TIME   :   3 HOURS   MAX. MARKS: 100

SECTION – A

ANSWER ALL QUESTIONS. EACH ANSWER NOT TO EXCEED 50
WORDS: **(10x2=20)**

1. What is a normal distribution ?
2. Explain : Ordinal Measurement
3. What is meant by Mode ?
4. Give an example of Range
5. What are the steps involved in calculating mean deviation ?
6. Give an illustration of Pictogram
7. Define : hypothesis
8. What is regression in statistics ?
9. Explain : SPSS and its uses
10. What is the meaning of the following statements :
    The NULL HYPOTHESIS is REJECTED AT 0.05 level of significance.

SECTION – B

ANSWER ANY FOUR QUESTIONS. EACH ANSWER NOT TO EXCEED 600
WORDS: **(4x10=40)**

11. Compute the standard deviation of the following four values :10, 20, 30, 40.

12. Identify the median :17, 12, 18, 19, 11, 10, 13.

13. How will you compute the standard deviation among grouped values ? Give only the

    formula and explain the symbols therein.

14. What are the Type I and Type II errors ?

15. In X hospital, there are 500 adult male patients, 400 adult female patients and 100

    children. Illustrate this with a pie chart.

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16. Compute the RHO COEFFICIENT and interpret the results. (RHO COEFFICIENT is rank order correlation)

PICTURE	JUDGE-1	JUDGE-2
A	1	3
B	2	5
C	3	1
D	4	6
E	5	2
F	6	6

SECTION – C

ANSWER ANY TWO QUESTIONS. EACH ANSWER NOT TO EXCEED 1200 WORDS: **(2x20=40)**

17. Define statistics, explain its uses and discuss its limitations with special reference to its use in social work
18. What is Dispersion ? Discuss any three measures of Dispersion and their uses, with suitable examples
19. Compute KARL-PEARSON'S correlation between X and Y in the following table

X	Y
3	3
7	5
11	7
14	6
15	9

Interpret the result. (Attach worksheet)

20. Calculate the CHI-SQUARE value from the following table and interpret the results. (Attach worksheet)

	Rural	Urban
Fail	18	2
Pass	6	24

(Apply Yate's correction if necessary)
Table value for reference only : 3.84

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