

M.S.W. Examination, 2014

Semester - III

Course - XIV

(Statistics for Social Work)

Time: 3 Hours

Full Marks: 80

Questions are of value as indicated in the margin.

Answer **any five** questions.

1. What is statistics? What are its uses? Analyse the limitations of statistics. 5+5+6=16
2. Define the term Hypotheses. What are its various steps of testing? State its necessity in research. 2+10+4=16
3. State the uses of tabular presentation of data. Present an analysis of the following table (Source: India Development Report 2012-13, p 237) 4+12=16

State	Life Expectancy at Birth (yrs) (2002-6)	Mean Years of Schooling (Yrs) (2004-5)
Andhra Pradesh	64.40	3.06
Bihar	61.60	2.97
Himachal Pradesh	67.00	4.88
Kerala	74.00	6.19
Nagaland	68.54	6.75
Odisha	59.60	3.34
Punjab	69.40	5.12
Rajasthan	62.00	2.96
West Bengal	64.90	4.36
India	63.50	4.10

4. The following table shows the major reasons for discontinuance or dropping out of children from studies

Financial constraints	21
Child not interested in studies	20
Unable to cope	10
Parents not interested in studies	9
For participating in economic activities	12
To attend to domestic work	5
For helping in household enterprises	3
Other reason (marriage, sickness etc)	9

Source: NSS 64th Round

Present the above data in a pie/bar diagram and comment.

12+4=16

P.T.O.

(2)

5. (a) What is the utility of a scatter diagram in social work research.
- (b) The following table summaries the results of an aptitude test given to 6 clerks to determine the correlation between test scores (x) and sales in the first month (y) in hundred rupees. Find the correlation coefficient and interpret the results.

x	25	42	33	54	29	36	
y	42	72	50	90	45	48	4+12=16

6. What do you mean by standard deviation? Calculate the standard deviation from the following data.

x	06	02	10	04	08
f	09	11	05	08	07

7. Explain the term Mean Income. Calculate the mean income of Hawkers of Sealdah based on the data furnished below.

Per month income	Number of Hawkers
Rs. 0 – 2000/-	150
Rs. 2000 – 4000/-	170
Rs. 4000 – 6000/-	90
Rs. 6000 – 10,000/-	75

8. A sample of 96 students enrolled in an introductory course was classified by their attendance status and their performance in midterm exam. Use the chi-square test to assess if there is a relationship between attendance and exam performance.

Regularly Attend?	Exam Performance			
	Y	Low	Middle	High
		12	20	28
	N	16	12	8

$$\chi^2_{(0.05)}(2d.o.f) = 5.99$$