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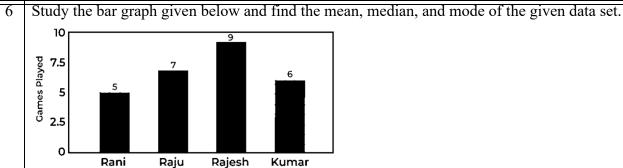
M.A. DEGREE EXAMINATION – **SOCIAL WORK**

SECOND SEMESTER – **APRIL 2025**

PSW2MC02 – SOCIAL WORK RESEARCH AND STATISTICS

Date: 26-04-2025   Dept. No.   Max. : 100 Marks

Time: 01:00 PM - 04:00 PM

SECTION A – K1 (CO1)

Answer ALL the questions   **(5 x 1 = 5)**

1 | **Answer the following.**

a) Why scientific enquiry is more than common sense? (any two arguments)

b) Define Social Work Research.

c) Differentiate between validity and reliability.

d) Calculate Mean for the following data:

Age: 35, 45, 48, 52, 47, 32, 36, 34

e) Draw a bar diagram using following data set related to violence against women in a week in Chennai

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
130	200	140	170	120	120	170

SECTION A – K2 (CO1)

Answer ALL the questions   **(5 x 1 = 5)**

2 | **Answer the following.**

a) Why review of literature is important in any scientific enquiry? (any two arguments)

b) Give examples for Nominal, Ordinal, Interval and Ratio measures.

c) The null hypothesis (H_0) typically represents:
     a) The researcher's belief.
     b) The alternative hypothesis.
     c) The status quo or no effect.
     d) The sample data.

d) Write the formula for Spearman's rank correlation coefficient.

e) Give examples for t-test and ANOVA.

SECTION B – K3 (CO2)

Answer any THREE of the following in 100 words each.   **(3 x 10 = 30)**

3 Explain the characteristics of good research and essential qualities of good researcher.

4 Highlight the importance of Quantitative, Qualitative and Mixed Method Research.

5 Describe the steps involved in conducting a focus group discussion.

6	Study the bar graph given below and find the mean, median, and mode of the given data set.

7	Calculate the mean and standard deviation for the following data:

Class Interval	0-10	10-20	20-30	30-40	40-50	50-60
Frequency	27	10	7	5	4	2

SECTION C – K4 (CO3)

Answer any TWO of the following in 200 words each. **(2 x 12.5 = 25)**

8	Summarize the various tools used for Qualitative data collection in social science research.
9	Evaluate the need and importance of ethical considerations involved in conducting Social Work Research.
10	Compare and contrast the strengths and weaknesses of different diagrammatic and graphical representations of data.
11	Calculate the **Pearson Correlation Coefficient** for the following data:

x	4	8	12	16
y	5	10	15	20

SECTION D – K5 (CO4)

Answer any ONE of the following in 500 words **(1 x 15 = 15)**

12	Prepare a research proposal to study the prevalence of Drug abuse among school and college student in Chennai.
13	Discuss the advantages of using SPSS for data analysis in research and Explain how SPSS can help researchers organize, analyze, and interpret data effectively.

SECTION E – K6 (CO5)

Answer any ONE of the following in 1000 words **(1 x 20 = 20)**

14	Examine the advantages and disadvantages of using Probability and Non-probability Sampling techniques in Social Work Research.
15	Analyze the below data and tell whether you can conclude that smoking causes cancer or not?

Category	Diagnosed as Cancer	Without Cancer	Total
Smokers	400	300	700
Non-Smokers	300	500	800
Total	700	800	1500

Given for Degree of Freedom =1, Chi-square 5 % = 3.84

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