

( 6 )

<u>Country</u>	<u>Rank on women's Higher Education</u>	<u>Rank on women's Age of marriage</u>	
<i>A</i>	9	8	
<i>B</i>	4	5	
<i>C</i>	6	6	
<i>D</i>	2	2	
<i>E</i>	7	11	
<i>F</i>	3	4	
<i>G</i>	10	7	
<i>H</i>	5	3	
<i>I</i>	8	9	
<i>J</i>	1	1	
<i>K</i>	11	10	3 + 2

**[Internal Assessment : 10 Marks ]**

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4. Answer any *two* of the following : 5 × 2

(a) Find number of students below and above the score of (i) 10 (ii) 22 when mean is 17 standard deviation is 3 and  $N$  is 500.  $2\frac{1}{2} + 2\frac{1}{2}$

(b) Researcher collected data for Health care survey on the weights of men of 2 age groups. In the age group 25 to 34 yrs, 100 men's mean weight is 80kg and standard deviation is 16 kg. In the age group 65 to 74 yrs, 150 men's mean weight is 74.5 kg and Standard deviation is 12 kg. Apply appropriate statistical technique and interpret the results. 3 + 2

(c) Eleven countries are rank-ordered in terms of two variables : women's higher education and women's age of marriage. Apply appropriate statistical technique and give sociological interpretations.

the results.

7 + 3

Teaching Effectiveness	Gender	
	Female	Male
High	91(A)	125(B)
Low	30 (C)	71 (D)

- (b) A research wants to find out whether birth order of a child affects his/her academic rank in school. Apply appropriate statistical technique to show the strength of the relationship between birth order and academic ranks. If the student is 7th born, what will be her/his expected academic rank.

<u>Student</u>	<u>Birth order</u>	<u>Academic Rank</u>
1	4	8
2	3	2
3	5	3
4	2	1
5	3	5
6	5	7
7	2	4
8	5	6
9	2	10
10	1	9

( 3 )

- (b) State the different types of Levels of Measurement with examples.
- (c) Calculate Median from the data given below :

<u>C.I.</u>	<u>f</u>
0-2	21
3-5	14
6-8	20
9-11	12
12-14	5

GROUP – B

3. Answer any *one* of the following : 10 × 1

- (a) A social researcher wanted to find out whether there is a difference in the teaching effectiveness between male and female professors while giving lectures to college students in class. Apply appropriate statistical technique when level of significance is  $\alpha = 0.01$  and interpret

( 2 )

<u>C.I.</u>	<u>f</u>
50-59	11
60-69	7
70-79	5
80-89	16
90-99	3

- (b) Calculate co-efficient of variance from the data given below : 10

<u>C.I.</u>	<u>f</u>
0-2	1
3-5	2
6-8	3
9-11	4
12-14	3
15-17	2
18-20	2
21-23	2
24-26	1

2. Answer any *two* from the following : 5 × 2

- (a) Differentiate between Descriptive and Inferential Statistics

**M.A. 2nd Semester Examination, 2015**

**SOCIOLOGY**

**PAPER – SOC- 204(Gr.-A + B)**

*Full Marks : 50*

*Time : 2 hours*

*The figures in the right hand margin indicate marks  
Candidates are required to give their answers in their  
own words as far as practicable*

*Illustrate the answers wherever necessary*

**GROUP – A**

**1. Answer any one of the following : 10 × 1**

**(a) What is the significance of Statistics in social Research ? Draw and Explain Ogive from the following data given below : 5 + 5**

<u>C.I.</u>	<u>f</u>
10-19	12
20-29	8
30-39	10
40-49	15

( Turn Over )