

Ph.D. PROGRAMME IN DISABILITY STUDIES

Term-End Examination

December, 2017

**RMD-002 : STATISTICAL TECHNIQUES IN
DISABILITY STUDIES**

Time : 3 hours

Maximum Marks : 100

- Note :**
- (i) *All sections are compulsory.*
 - (ii) *Use of simple calculator is permitted.*

SECTION - A

Write short notes on any ten of the following in
about 50 words each : 10x4=40

1. Correlation
2. Multiple regression
3. MANCOVA
4. Skewness
5. Level of significance
6. Factor loading
7. Quartile deviation
8. Degree of freedom

9. SPSS
10. Structural equation
11. Standard error

SECTION - B

Answer any five of the following questions in about 200 words each : 5x6=30

12. Compute mean, median and mode for the following data : 2+2+2
10, 12, 14, 16, 19, 20, 36, 20, 20, 20, 19, 18, 13, 15, 17
13. Discuss the advantages and disadvantages of non-parametric statistics. 6

14. Compute Chi-square for the following data : 6

	Agree	Disagree
Male	45	15
Female	25	25

15. Compute Spearman's rho for the following data : 6
Data 1 : 10, 11, 12, 9, 7, 6, 8, 4
Data 2 : 3, 2, 3, 2, 4, 5, 7, 3
16. Explain path analysis. 6
17. Describe the steps in calculating regression with suitable example. 6

SECTION - C

Answer any two of the following questions in about 500 words each : 2x15=30

18. Define Statistics. Describe the graphical methods of data representation with suitable diagram. 5+10
19. Compute non - parametric ANOVA for the following data : 15
Group 1 : 2, 3, 4, 7, 9, 8, 6
Group 2 : 4, 3, 2, 7, 7, 7, 5
Group 3 : 5, 4, 3, 7, 8, 9, 7
20. Explain normal curve with a diagram. Describe application of normal curve. 5+10
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