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RMD-002

Ph.D. PROGRAMME IN DISABILITY STUDIES

Term-End Examination

00149

June, 2016

RMD-002 : STATISTICAL TECHNIQUES IN DISABILITY STUDIES

Time : 3 hours *Maximum Marks : 100*

Note : *All sections are* ***compulsory****. Read the instructions given in each section carefully. Use of simple calculator is permitted.*

SECTION A

Write short notes on the following in about 50 words each (any ***ten****) :* *10×4=40*

1. Level of Significance
2. Quartile Deviation
3. Histogram
4. Partial Correlation
5. Multiple Regression
6. Path Analysis
7. MANCOVA

8. Factor Loadings

9. Statistical Package for Social Sciences (SPSS)

10. Goodness of fit test

11. Ratio and Interval Scale

SECTION B

*Answer the following questions in 200 words each (any **five**) :* *5×6=30*

12. Describe the application of techniques for prevalence and incidence. *6*

13. Discuss the significance of graphical methods of data representation. *6*

14. Compute mean, median and mode for the following data : *2+2+2*

12, 10, 13, 14, 18, 12, 14, 12, 12, 18, 19, 20, 21, 13, 22

15. Compute the standard deviation for the following data : *6*

10, 12, 13, 14, 15, 16

16. Describe Normal Distribution with a suitable diagram. *6*

17. Describe Cluster Analysis. *6*

SECTION C

*Answer the following questions in 500 words each (any **two**) :* *2×15=30*

18. Define Correlation. Compute Spearman's rho for the following data : *4+11*

	A	B	C	D	E	F	G	H	I	J
Data X :	30	20	10	25	9	18	14	12	7	5
Data Y :	8	10	20	7	18	16	15	4	24	25

19. Define and differentiate between parametric and non-parametric statistics with suitable examples. *6+9*

20. Describe the steps involved in computation of Chi-square test. Compute Chi-square for the following data :

	Responses		
	Yes	No	Undecided
Males	10	20	30
Females	40	40	50

Critical value :

5·991 at 0·05 level of significance

9·210 at 0·01 level of significance *6+9*