

Ph.D. (EDUCATION)
Term-End Examination
December, 2016

00040

RES-003 : DATA ANALYSIS TECHNIQUES

Time : 3 hours

Maximum Weightage : 70%

Note : *All questions are compulsory. All questions carry equal weightage. Students may be allowed to use calculator, t-test, χ^2 test and NPC table.*

1. Answer the following question in about 600 words :

Explain the scales of measurement in educational research, with suitable examples.

OR

- (a) Explain the characteristics of Normal Probability Curve.
- (b) In a sample of 1000 students, the mean of a certain test is 15.50 and standard deviation is 2.50. Assuming normality of distribution, find out how many students score between 12.50 and 17.50.

2. Answer the following question in about 600 words :

Discuss the computer assisted techniques of quantitative data analysis in educational research.

OR

- (a) Define Quartile Deviation.
(b) Find out the Quartile Deviation of the following distribution :

<u>Class Intervals</u>	<u>Frequencies</u>
70 – 74	3
65 – 69	4
60 – 64	6
55 – 59	10
50 – 54	13
45 – 49	11
40 – 44	7
35 – 39	4
30 – 34	2
	<u>N = 60</u>

3. Answer any **four** of the following questions in about 150 words each :
- (a) Discuss the use of graphical presentation of data in educational research.
 - (b) Differentiate between parametric and non-parametric statistics.
 - (c) Differentiate between qualitative and quantitative data.
 - (d) Discuss the use of t-test in educational research.
 - (e) Explain the technique of content analysis.
 - (f) Discuss the use of partial and multiple correlation.

4. Answer the following question in about 600 words :

What do you understand by case analysis ?
Critically discuss the aspects to be covered in case analysis of an educational institute.
