

2021**EDUCATION****Semester-I Re-examination (DODL)****Paper : EDC-04****(Research Methodology-1)**

Full Marks : 80

Time : 4 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.***GROUP-A**

1. Answer any **four** questions : $15 \times 4 = 60$
- a) Define 'Historical Research'. Discuss the sources of historical material in historical research. Write down the criticism of historical research in education. $3+7+5=15$
- b) What do you mean by 'Hypothesis'? State the criteria of a good research worthy hypothesis. Briefly describe the mechanisms of testing hypothesis. Formulate on declarative null hypothesis. $3+3+7+2=15$
- c) What do you mean by scientific inquiry? Describe the general steps of scientific inquiry.

[Turn over]

Differentiate longitudinal research from cross-sectional research with suitable examples.

 $3+6+6=15$

- d) State the differences between population and sample. Explain different types of probability sampling techniques with suitable examples. State the procedure of selecting the sample. $3+9+3=15$
- e) Discuss the criteria of good research tools. Describe briefly general steps of test construction. Mention the types of observation technique. $5+7+3=15$
- f) Write a short note on Levels of Measurement.

Draw a Histogram from the data given below:

Class Interval:	11-15	16-20	21-25	26-30
Frequency:	2	4	5	7

Class Interval:	31-35	36-40	41-45	46-50
Frequency:	9	6	4	3

 $5+10=15$ **GROUP-B**

2. Answer any **four** questions : $5 \times 4 = 20$
- a) Explain the principles to be followed for constructing a questionnaire. 5
- b) Compare between qualitative and quantitative research. 5

- c) Write down strengths and weakness of sampling techniques. 5
 - d) Explain the different ways to measure central tendency. 5
 - e) Write critical notes on Interrelationship studies. 5
 - f) Explain with examples the characteristics of a research worthy problem. 5
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