

ALLAMA IQBAL OPEN UNIVERSITY, ISLAMABAD
(Faculty of Education)

WARNING

- 1. PLAGIARISM OR HIRING OF GHOST WRITER(S) FOR SOLVING THE ASSIGNMENT(S) WILL DEBAR THE STUDENT FROM AWARD OF DEGREE/CERTIFICATE, IF FOUND AT ANY STAGE.**
- 2. SUBMITTING ASSIGNMENTS BORROWED OR STOLEN FROM OTHER(S) AS ONE'S OWN WILL BE PENALIZED AS DEFINED IN "AIOU PLAGIARISM POLICY".**

Course: Instrumentation in Educational Research (4775)

Level: Ph.D. (Education)

Semester: Spring, 2014

Total Marks: 100

Pass Marks: 50

ASSIGNMENT No. 1

(Units 1-4)

Attempt all questions. Keep in mind the level to respond. Each question carried 20 marks.

- Q.1 a) How are attitudes scales employed in the appraisal of students attitudes?
- b) What are some of the difficulties involved in inferring the attitude from observed behaviours?
- Q.2 Elaborate the reliability and validity as used by Likert method in a research study.
- Q.3 Sketch the theoretical operating characteristics of favourable statements, unfavourable statements and neutral statements of professional development.
- Q.4 What is semantic differential scale? Write down its types in detail.
- Q.5 How factor analysis of semantic differential scale may be done and what are the theoretical considerations for developing a semantic differential scale?

ASSIGNMENT No. 2

(Units 5-9)

Total Marks: 100

Pass Marks: 50

Attempt all questions. Keep in mind the level to respond. Each question carried 20 marks.

- Q.1 Explain co-efficient of reproducibility and scalability in detail.
- Q.2 What is factor analysis, factor correlation matrix? Also explain the steps involved in conducting factor analysis.
- Q.3 Differentiate between convergent validity and discriminated validity. What are the factors affecting validity of an instruments?
- Q.4 Explain the possible pitfalls that occur in the interviews. How the outcomes of interview can be analyzed?
- Q.5 Differentiate between qualitative and quantitative observations system. Also identify the procedures involved in quantitative observation.