**ALLAMA IQBAL OPEN UNIVERSITY, ISLAMABAD**

**(Department of Educational Planning, Policy Studies & Leadership)**

**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: Educational Research and Statistics-II (6570) Semester: Spring, 2025**

**Level: MA-EPM**

## **Please read the following instructions for writing your assignments. (AD, BS, B. Ed, MA/MSc, MEd) (ODL Mode).**

1. All questions are compulsory and carry equal marks but within a question the marks are distributed according to its requirements.

2. Read the question carefully and then answer it according to the requirements of the questions.

3. Avoid irrelevant discussion/information and reproducing from books, study guide or allied material.

4. Handwritten scanned assignments are not acceptable.

5. Upload your typed (in Word or PDF format) assignments on or before the due date.

6. Your own analysis and synthesis will be appreciated.

7. Late assignments can’t be uploaded at LMS.

8. The students who attempt their assignments in Urdu/Arabic may upload a scanned copy of their handwritten assignments (in PDF format) on University LMS. The size of the file should not exceed 5MB.

## **Total Marks: 100 Pass Marks: 40**

**ASSIGNMENT No. 1**

**(Units 1-4)**

***Note: All questions carry equal marks.***

Q. 1 What are statistical methods, and how do researchers use them to analyze data in studies? **(20)**

Q. 2 (a) Explain the measure of central tendency and provide examples of how it’s used in research

(b) A set of exam scores for a class is given as follows:85,92,78,90,88,90. Calculate the mean, median, and mode of these scores. **(20)**

Q. 3 (a) What does the measure of variability mean, and why is it important to interpret data accurately? (b) If X = 17,06,08,15,10,06,11, 05, 13, 09. Calculate the Range, variance and Standard deviation. **(20)**

Q. 4 (a) How do researchers assess the measure of the relationship between variables in a study, and why is this important? **(20)**

(b) In a study examining the relationship between study hours and exam scores, a correlation coefficient of 0.075 is found. What does this value indicate about the strength and direction of the relationship? How will you interpret it?

Q. 5 Explain the significance of the difference of means in research where it is used explain with an example. **(20)**

**Total Marks: 100 Pass Marks: 40**

**ASSIGNMENT No. 2**

**(Units: 5–9)**

***Note: All questions carry equal marks.***

Q. 1 How do researchers analyze data collected during a study, and what techniques are commonly used for this purpose? **(20)**

Q. 2 What is the role of computers in data analysis, and how do researchers utilize computer software for analyzing research data? **(20)**

Q. 3 What is the process of conducting a review of related literature in research, and why is it necessary? **(20)**

Q.4 How do researchers evaluate the quality and validity of a research thesis, and what criteria are commonly used for assessment? **(20)**

Q.5 What are some key considerations when reviewing a research thesis, and how do researchers ensure the credibility and reliability of their findings? **(20)**