# ALLAMA IQBAL OPEN UNIVERSITY, ISLAMABAD

**(Department of Science Education)**

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**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: TEACHING OF MATHEMATICS (6515) Semester: Spring, 2025**

**Level: MA (Teacher Education)**

## Please read the following instructions for writing your assignments. (AD, BS, BEd, 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 guides, 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 5MP.

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

**ASSIGNMENT No. 1**

 **(Units: 1-4)**

Q.1 How has mathematics influenced the development of modern technology, particularly in fields like artificial intelligence and machine learning? (20)

Q.2 Explain procedure of inquiry teaching in mathematics. Also develop a plan to teach any topic by using inquiry method. (20)

Q.3 Elaborate the utilization different instructional Aids for teaching of mathematics. Why use of these aids is necessary in Mathematics Teaching? Justify. (10+10)

Q.4. Prepare a lesson plan based on inductive method for solution of equations. (20)

Q.5. Explain the significance and scope of Computer technology in teaching of mathematics, Support your answer with specific examples. (20)

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

**ASSIGNMENT No. 2**

**(Units: 5-9)**

Q.1. Describe methods of holistic and analytic scoring of essay items. Write guidelines for using analytic marking in mathematics assessment. (20)

Q.2 Explore application of linear simultaneous equations in mathematics. Give method to teach solution of linear simultaneous equations at secondary level. (20)

Q.3. Prepare the lesson plan to teach concept of factorization at secondary level. (20)

Q.4. Write procedures and steps of drawing bisectors of the angles of a triangle. Suggest measures to teach concept of bisectors at secondary level. (20)

Q.5. Write method and procedures to solve triangles, when measures of a side and an angle are known. Give examples to support procedure. (20)