# ALLAMA IQBAL OPEN UNIVERSITY, ISLAMABAD

**(Department of Science 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: General Science in Schools (8638) Semester: Spring, 2025**

**Level: ADE/B.Ed/BS Credit Hours: 3**

## **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. However, 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.

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.

**Total Marks: 100 Pass Marks: 50**

**ASSIGNMENT No. 1**

**(Units: 1-4)**

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

Q.1 Compare and contrast “science as a process” and “science as a product” with the help of

examples. (20)

Q.2 There are four approaches for teaching Science process skills; evaluate which one is the best approach. Justify your answer with the help of examples. (20)

Q.3 What are the basis of the Goals of Science Education? Write the structure of the science curriculum in Pakistan (20)

Q.4 Conduct action research to find “the problems of novice science teachers regarding

conduct of practical”. (20)

Q.5. Describe the qualities of a science teacher in terms of scientific knowledge, skills and teaching skills. Have science teachers presently teaching science classes acquired these qualities? (20)

**Total Marks: 100 Pass Marks: 50**

**ASSIGNMENT No. 2**

**(Units: 5-9)**

Q.1 Develop two lesson plans based on the 5E teaching model from 7th or 8th class science.

(20)

Q.2 Describe a computer as an instructional aid for effective science teaching. (20)

Q.3 Explain the purpose and Need of Assessment in Science Education. (20)

Q.4 Define misconception. Have small group discussions with your class fellows to identify

and then rectify misconceptions. (20)

Q.5 Enlist the guidelines of Carin and Sund to involve the children in Doing Science. Write their implications in today’s science classroom. (20)