**ALLAMA IQBAL OPEN UNIVERSITY ISLAMABAD**

**(Department of Science Education)**

**Faculty of Education**

**WARNING**

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

**Course: Assessment in Science Education (8628) Semester: Spring, 2025**

**Level: B. Ed (1.5 Years)**

**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.

**ALL QUESTIONS ARE COMPULSORY AND CARRY EQUAL MARKS**

Note:

* Response to each question should not be less than 1200 words failing which marks will be deducted accordingly.
* Please write in your own words after reading the study guides and the related material. Also, avoid irrelevant information and reproduction from any text and critically analyze the questions asked for.
* Frequently visit the website for the latest developments and sources. Provide the source while quoting any material. Use APA style. Also, develop a reference list for each question separately.
* No marks will be given for reproduction from the text or from elsewhere.
* Please write your assignment in legible handwriting.
* Please submit the assignment on or before the specified date.
* Late assignments will not be accepted in any case.

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

**Assignment No.1**

**(Unit No.1-5)**

**Q.1 What critical factors should a teacher consider when planning an assessment, particularly in the context of secondary school science students? Provide a thorough discussion.** (20)

**Q.2 Analyze the essential considerations involved in formulating behavioral or performance objectives.** (20)

**Q.3 What are the fundamental prerequisites for assessing knowledge objectives in science education? Offer an in-depth discussion on the subject.** (20)

**Q.4 Define "comprehension" in the context of education. Discuss various levels of comprehension, providing relevant objectives for a specific topic in Mathematics.** (20)

**Q.5 Do you concur with the assertion that “higher-order skills are distinct from other cognitive skills”? Present a detailed analysis, supporting your position with appropriate examples in either case.** (20)

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

**Assignment No.2**

**(Unit 6-9)**

Q.1 Clarify the nature of practical skills and competencies. What is the significance of assessing practical skills in the educational context? (20)

Q.2 Provide an in-depth explanation of the five categories within Krathwohl’s Taxonomy, supporting your response with concrete examples from a science discipline. (20)

Q.3 What constitutes outcome-based assessment criteria? Illustrate your answer with pertinent examples to demonstrate its application. (20)

Q.4 Analyze the role of attitudes in science education. What strategies can be implemented to cultivate a scientific attitude among students? (20)

Q.5 Write concise notes on the following: (10+10)

a) The role and utilization of assessment data

b) The significance and types of student evaluation tasks