

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)
ORGANISATION OF ISLAMIC COOPERATION (OIC)
DEPARTMENT OF TECHNICAL AND VOCATIONAL EDUCATION (TVE)

Examination: Semester Final
Course No: TVE 4235
Course Title: Educational Measurement and Evaluation

Academic Year (2023-2024)
Time : 2 hours
Full Marks : 120

There are 4 (four) questions. Answer all questions.
Figures in the right margin indicate marks of the questions.

1. Explain the concept of a Table of Specifications (TOS). Then, design a TOS for a course within your area of specialization by adhering to the following guidelines: 30 CO3 PO2
 - Identify 5 content areas (chapters or topics).
 - Include cognitive domains ranging from Knowledge to Create (60% lower-order, 40% higher-order).
 - Prepare 4 main questions, each with 3 sub-questions (total: 12 sub-questions), carrying 100 marks in total (25 marks per main question).
 - Clearly indicate for each sub-question the content area (chapter) and the cognitive level it belongs to.

Once the Table of Specifications is completed, use it as a guide to develop the corresponding test, incorporating appropriate action verbs that represent the intended cognitive levels.
2. a) Discuss the major considerations in validating assessments as outlined in the framework of Content, Construct, Assessment-criterion relationships, and Consequences. 15 CO1 PO2
 b) What is *authentic assessment*? Compare *traditional assessments* and *authentic assessments*, and mention authenticity indicators. 15
3. a) "Supply-type questions are often considered superior to multiple-choice questions". Discuss this statement with suitable examples to justify your answer. 10 CO4 PO2
 b) One major criticism of true-false items is that students may identify a statement as false without knowing the correct answer. How can teachers address this limitation in assessment? Explain with examples. 10
 c) Design a matching exercise and explain the guidelines you followed in constructing this assessment task. 10
4. a) Compare and contrast objective-type and essay-type assessments in terms of their following aspects: 20 CO2
 - i. measuring learning outcomes,
 - ii. preparation of questions,
 - iii. sampling of course content,
 - iv. control of student responses,
 - v. scoring, and
 - vi. reliability.
- b) Analyze the following questions and highlight their potential problems. 10 CO4

Question A: Multiple-choice type
A porpoise is an: a) plant b) reptile c) animal d) bird

Question B: True-False type
"Conductors usually offer low resistance to the flow of electric current." – true or false? PO2

Question C: Short-answer type
John Glenn made his first orbital flight around the earth in _____.