

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

**Exam:** Semester Final Examination  
**Course Number:** TVE 4125  
**Course Title:** Methods & Techniques of Teaching

**Academic Year:** 2022 – 2023  
**Full Marks:** 150  
**Duration:** 3 Hours

There are **8 (eight)** questions. Answer **6 (six)** questions (Choose Your Six Questions in such so that Minimum **One** CO1, CO2, and CO3 is being selected).

The symbols have their usual meaning.

1. a) Students learning outcome is connected to components as shown in the diagram. Explore your own understanding after analyzing the following diagram in relation to achieve the learning outcomes. 13



Source: Kember (1997)

- b) What would be the six best qualities of a *good teacher* in technical education? Provide supporting reasons of identifying these qualities. 12  
CO1
2. Choose a topic from your area of interest and discuss this topic (consider you are a teacher for this topic) by applying *cognitive learning theory* based on the following three steps: 25
- a) learning process; CO1  
b) role of a teacher;  
c) role of a learner.
3. a) In which context *Lecture method* of teaching is most suitable? Clarify your answer with example. 10  
b) "How demonstration method of teaching will work in technical education", explain it step by step. 15  
CO3
4. a) Why do you need to use different teaching aids for offering effective teaching in technical education? 07  
b) What are the key benefits of using *power point* as a teaching aid in technical education? 08  
c) When White Board is an obligatory teaching aid for conducting teaching and learning in technical education of your country? Clarify your answer with an example. 10  
CO2

5. Prepare a complete lesson plan choosing a topic from your own area of discipline (specialization: ME/CSE/EEE). The focus point of your answer should be guided by the following five steps:	25 CO3
i. Introduction	
ii. Presentation	
iii. Application/activity	
iv. Summary	
v. Evaluation	
6. a) Define the meaning of ICT in education.	06
b) Draw a diagram that represents the role of ICT in education/ technical education.	04
c) ICT alone could not facilitate teaching and learning process. Do you agree with this statement? In relation to your answer discuss the pedagogical role of ICT in teaching and learning contexts.	15 CO2
7. a) Consider, you are an education minister of your country and would like to incorporate ICT in your education system. What are the major difficulties that you may come across while you intend to integrate ICT in you education system? Explain in relation to the following headings:	16
i. Teacher- level barriers;	
ii. School- level barriers.	
b) Why do you use Hybrid pedagogy in teaching technical education discipline in the 21 <sup>st</sup> Century?	09 CO2
8. a) Design a context (situation) where <i>hybrid pedagogy</i> is obligatory? Discuss this pedagogical approach with an example.	13
b) Provide three benefits and three limitations of using flipped classrooms in technical/engineering education	12 CO3