

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)  
ORGANISATION OF ISLAMIC COOPERATION (OIC)  
**Department of Computer Science and Engineering (CSE)**

SEMESTER FINAL EXAMINATION

WINTER SEMESTER, 2022-2023

DURATION: 3 HOURS

FULL MARKS: 150

**CSE 6191: Web based Instructions and E-Learning**

**Programmable calculators are not allowed. Do not write anything on the question paper.**

There are 5 (**five**) questions. Answer all of them. Figures in the right margin indicate marks.

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| 1. a) | The virtual guest lecture can enhance the quality of student learning in multiple ways. Discuss these ways.  | 12 |
| b)    | Not all risk factors in an online course are technology related. Sometimes, the risks are simply due to natural human dynamics. Explain these <i>natural human dynamics</i> risk factors and the ways to reduce these risks. | 12 |
| c)    | Discuss the impact of technology breakdown in e-learning.  | 6  |
| 2. a) | The facilitator in the online environment must possess a unique set of tools to perform effectively. Discuss some basic criteria for a person to be successful as an online facilitator.                                     | 10 |
| b)    | The online student should possess a set of qualities. List and explain these qualities.  | 10 |
| c)    | Discuss how the e-learning emerge in your country during recent COVID-19 outbreak.   | 10 |
| 3. a) | You are assigned to identify courses which can be taught online seamlessly. Discuss the criteria you should follow to identify those courses.  | 15 |
| b)    | One of the major strength of e-learning is <i>anytime and anywhere</i> . Discuss on this topic.  | 10 |
| c)    | When choosing an ice breaker there are 3 questions to keep in mind. – discuss these three points.  | 5  |
| 4. a) | Which strategies you would follow to receive students' feedback in the Virtual Classroom?  | 10 |
| b)    | "The shift in the teaching and learning paradigm is steadily evolving as the technology itself does" – explain this assertion.   | 10 |
| c)    | As an online facilitator you are asked to provide some tips to your students. Discuss some tips for success that you might share with your students.   | 10 |
| 5. a) | Explain how <i>Gagne's nine universal steps of instruction</i> can be incorporated into a web-based courseware.  | 15 |
| b)    | Most common learning styles can be classified in four categories. Discuss which learning styles can be effectively managed in online learning environment and which are not.   | 10 |
| c)    | Write a short note on e-learning strategy used for various level of education (primary, secondary, and higher education) in your native country.   | 5  |