THE OPEN UNIVERSITY OF SRI LANKA

FACULTY OF EDUCATION

DEGREE OF MASTER OF EDUCATION – 2021/2022

FINAL EXAMINATION

STP9632 – COMPUTER TECHNOLOGY IN EDUCATION

DURATION – THREE (03) HOURS

Date: 25.06.2023	Time: 9.30 a.m. – 12.30 p.m.

Answer any four (04) questions. You should not provide the same lesson as an example when answering different questions.

01. "Constructive alignment is a design for teaching in which what is intended students should learn and how they should express their learning is clearly stated before teaching takes place" (Biggs, 2014)

     i.   Describe the constructive alignment providing an example from a learning experience implemented with your students in a selected lesson.   (40 marks)

     ii. Explain how a concept map as a visual organization and representation of concepts, helps in designing learning experiences.   (30 marks)

     iii. Explain the first principles of instruction (Meril, 2012) in designing learning experiences, with a suitable example.   (30 marks)

02. The teacher's role has been changed from "a transmitter of subject matter content" to "a facilitator of learning".

     i.   Explain how the learning can be facilitated, giving five (05) facts in relation to a lesson you are teaching.   (30 marks)

     ii. Describe how the learning can be made meaningful with the use of technology, citing suitable examples.   (30 marks)

     iii. Explain a learning experience you have created for your students in a selected lesson in which technology was used to make it meaningful.   (40 marks)

03. Digital learning has become very effective in the current context due to various reasons.

     i.   Explain the meaning and the importance of digital learning, citing suitable examples.   (30 marks)

     ii. Explain five (05) Software Types/Digital Tools that can be used in relation to support the learning process of a selected lesson.   (30 marks)

iii.   Reflect on at least five challenges you faced, and strategies to overcome those challenges in using digital tools in your lesson.   (40 marks)

04.   The World Wide Web is increasingly being used as a medium to enhance teaching learning process.

    i.   Explaining **five needs (05)** discuss the importance of online teaching and learning, citing suitable examples.   (30 marks)

    ii.   Describe **five (05)** characteristics in a web-based learning environment, citing their importance for meaningful learning.   (30 marks)

    iii.   Reflect your personal experiences in learning with a LMSs. Examine how fundamentals of LMSs have been effectively incorporated in that learning environment.   (40 marks)

05.   The fundamental aspects that must be respected during the development of an educational programme are defined in Instructional Design System Models.

    i.   Explain the use of ADDIE instructional design model in creating TEL materials.

    (30 marks)

    ii.   Explain the evaluation of **four (04)** design aspects, in relation to the evaluation of TEL material you created under.

    - Deciding evaluation questions.
    - Developing evaluation criteria.
    - Choosing suitable evaluation tools.   (40 marks)

    iii.   Construct an evaluation tool to gather qualitative information covering all **four (04)** design aspects.   (30 marks)

06.   OER has been shown to increase student learning while breaking down barriers of affordability and accessibility.

    i.   Explain 5Rs framework of OER, citing the types of Creative Common license types, appropriately.   (30 marks)

    ii.   Describe how the 'openness' in education is assured through OERs, citing suitable examples.   (40 marks)

    iii.   Explain **three (03)** practical difficulties encountered by you in using OERs for your teaching and learning process, and strategies adopted by you to minimize those.

    (30 marks)
    (Total 100 marks)