

THE OPEN UNIVERSITY OF SRI LANKA

FACULTY OF EDUCATION

DEGREE OF MASTER OF EDUCATION

FINAL EXAMINATION – 2024/2025

STP9632 – COMPUTER TECHNOLOGY IN EDUCATION

DURATION – THREE (03) HOURS



Date: 07.02.2026

Time: 1.30 p.m. – 4.30 p.m.

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

01. “Skill development of learners and authentic assessment are the key priorities in the proposed education reforms in Sri Lanka. Teachers’ role is also expected to be changed accordingly to ensure meaningful learning”.
 - i. Explain what is meant by “meaningful learning” citing **five (05)** aspects to be considered. (30 marks)
 - ii. Describe how meaningful learning can be enhanced with the use of technology, citing **three (03)** 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)
02. “Technology is not a collection of machines and devices, but a way of acting”.
 - i. Justify the above statement highlighting at least **three (03)** roles of educational technology in the classroom teaching-learning process. (30 marks)
 - ii. Differentiate instructional tools and instructional procedures citing suitable examples from a selected lesson. (30 marks)
 - iii. Explain how to promote authentic practices in the teaching-learning process through technology-enhanced learning, with an example. (40 marks)
03. “The Design and development of multimedia learning environments is not just about adding multiple media, but about fostering meaningful learning through principled instructional design using different media types”.
 - i. Name **three (03)** multimedia design software and explain their use citing suitable subject related examples. (30 marks)
 - ii. Discuss **five (05)** aspects to be considered in selecting software for the development of educational multimedia. (30 marks)

- iii. Critically evaluate the educational value and effective use of multimedia learning materials in the classroom teaching learning process. (40 marks)
04. "The World Wide Web is increasingly being used as a medium to enhance teaching-learning processes"
- i. Explain **three (03)** main features of the World Wide Web (WWW) which are useful to develop online learning environments. (30 marks)
- ii. Examine the potential of World Wide Web as a knowledge construction tool in highlighting **three (03)** related aspects. (30 marks)
- iii. (a). Explain **five (05)** aspects to be considered in planning to develop Web-based learning materials. (30 marks)
- (b). Write a brief reflective account on your experience in contributing to the development of a collaborative web site. (10 marks)
05. "The TPACK framework is a model for educators that explains the knowledge needed to effectively integrate technology into teaching"
- i. Explain the main components of the TPACK framework, using a diagram. (30 marks)
- ii. Describe related to a selected lesson component, how each component of the TPACK framework is considered in planning a technology based learning material (30 marks)
- iii. Discuss **two (02)** opportunities and **two (02)** challenges in using the TPACK framework to plan the teaching and learning process, and make suggestions to minimize those challenges. (40 marks)
06. "Teachers function as designers of effective, efficient, and engaging learning experiences"
- i. Describe how you would consider the **four (04)** design aspects to create an effective, efficient, and an engaging learning experience of a selected lesson. (40 marks)
- ii. Providing three (03) examples, explain how you have used free digital tools to develop the learning activities in the learning experience described in part (i). (30 marks)
- iii. Examine the role of a systematic instructional design model that supported you to create technology-enhanced learning materials for the lesson described in part (i) (30 marks)

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