



**THE OPEN UNIVERSITY OF SRI LANKA**

**FACULTY OF EDUCATION**

**DEGREE OF MASTER OF EDUCATION**

**FINAL EXAMINATION – 2018/2019**

**ESP2332/STP9632 – COMPUTER TECHNOLOGY IN EDUCATION**

**DURATION – THREE (03) HOURS**

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Date: 24.03.2019

Time: 9.30 a.m. – 12.30 p.m.

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**Answer any three (03) questions.**

01. “TPACK framework provides guidance for teachers to develop Computer Assisted Learning (CAL) materials”
- i. Explain the main components of the TPACK framework, using a diagram.  
(30 marks)
  - ii. Describe with suitable examples, how each component of the TPACK framework becomes relevant when developing CAL materials.  
(40 marks)
  - iii. Discuss briefly, how the TPACK framework is useful for teachers when integrating Computer Technology in the teaching-learning process.  
(30 marks)
- (Total = 100 marks)
02. “A constructivist approach to learning supports meaningful learning of students”.
- i. Explain what is meant by a “Constructivist Approach of learning”.  
(30 marks)
  - ii. Describe with a suitable example, how computer technology can be used by teachers to design and develop constructivist learning environments.  
(40 marks)
  - iii. Discuss briefly how a constructivist approach to learning supports meaningful learning among students.  
(40 marks)
- (Total = 100 marks)

03. “The concept of Open Educational Resources (OER) promotes a sharing culture and creativity among teachers and learners”
- i. Explain what are “Open Educational Resources (OER) and the main concepts related to them.  
(30 marks)
  - ii. Discuss how the concept of OER promotes a sharing culture and creativity among teachers and learners.  
(40 marks)
  - iii. Describe the different types of Open Licences associated with OER, and how those can be used by teachers/learners.  
(40 marks)
04. “Design and development of Technology Enabled Learning (TEL) environments essentially requires a systematic approach”
- i. Explain with an example, the main components when designing a learning experience of a TEL environment.  
(30 marks)
  - ii. Describe **four (04)** design aspects to be considered when designing a TEL environment.  
(40 marks)
  - iii. Discuss briefly the importance of using a systematic approach to develop TEL materials, based on a selected Instructional Design (ID) model.  
(40 marks)
- (Total = 100 marks)
05. “Online teaching and learning supports students in an Open and Distance Learning (ODL) system”.
- i. Explain **four (04)** main features of the World Wide Web (WWW) which are useful to develop online learning environments.  
(40 marks)
  - ii. Describe what is a Learning Management System (LMS) and how it supports learners in an ODL system.  
(30 marks)
  - iii. Discuss the strengths and challenges in implementing Massive Open Online Courses (MOOCs)  
(40 marks)
- (Total = 100 marks)

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05. “මාර්ගගත (Online) ඉගෙනුම සහ ඉගැන්වීම, විවෘත හා දුරස්ථ ඉගෙනුම (ODL) පද්ධතියක සිටින සිසුන්හට උපකාරී වෙයි.”

(i) මාර්ගගත (Online) ඉගෙනුම් පරිසර සංවර්ධනය සඳහා උපකාරී වන, විශ්ව විසිරි වියමනෙහි (world wide web-www) ප්‍රධාන ලක්ෂණ හතරක් (04) පැහැදිලි කරන්න. (ලකුණු 40)

(ii) ඉගෙනුම් කළමනාකරණ පද්ධතියක් (Learning Management system-LMS) යනු කුමක්දැයි සහ එය විවෘත හා දුරස්ථ ඉගෙනුම් පද්ධතියක සිටින සිසුන්හට උපකාරී වන අයුරු විස්තර කරන්න. (ලකුණු 30)

(iii) විශාල විවෘත මාර්ගගත පාඨමාලා (Massive Open Online Courses – MOOCs) ක්‍රියාත්මක කිරීමේ ප්‍රබලතා සහ අභියෝග සාකච්ඡා කරන්න.

(ලකුණු 30)

(ලකුණු 100)

හිමිකම් ඇවිරිණි.