



RAJARATA UNIVERSITY OF SRI LANKA

FACULTY OF APPLIED SCIENCES

B. Sc. (Four Year) Degree in Information and Communication Technology

Fourth Year – Semester I Examination -2015 October/November

ICT 4201- ICT FOR EDUCATION

INSTRUCTIONS TO CANDIDATES

- This paper consists of four (04) questions on 2 pages
- Answer **ALL** questions.
- This examination accounts for 60% of the module assessment.
- The total maximum mark attainable is 100. The marks assigned for each question and section thereof are indicated in square brackets.
- This is a **closed book** examination.
- Mobile phones or any other communication devices are not permitted.
- Clearly state the assumptions you make. If you have any doubts regarding the interpretation of the wording of a question, make your own decision, but clearly state it on the script.

Library
Faculty of Applied Sciences
Rajarata University of Sri Lanka
Sri Lanka

1.

- a. What does the 'e' in 'e-learning' represent? Explain using your own ideas. [3 Marks]
- b. What are the components of a blended learning environment? [3 Marks]
- c. It is stated that "blended learning is the most appropriate method for Sri Lankan state universities". Do you agree with this? Discuss. [5 Marks]
- d. Assume that you are appointed as the Registrar of Examination Department in Rajarata University of Sri Lanka. You wish to introduce electronic examinations for all faculties and automate the processes of Examination Department. Discuss the challenges that you may have to face when introducing electronic examinations and automating the processes of Examination Department. How will you overcome these challenges? [7 Marks]

- e. "Social media technology can serve as a powerful tool to enhance education, communication and learning." Discuss. [7 Marks]

2.

- a. Assume that you are designing an e-learning course, and you are thinking about including a post-course evaluation for your learners to complete once they finish your course. Prepare a list of questions for your e-learning post-course evaluation form. [7 Marks]
- b. Current generation of learners have grown up in a world of computers, mobile telephony and the Internet, and now lead lives that are dependent on digital media. Web 2.0 technology enables them to enhance their learning experience. Discuss using four (04) examples. [8 Marks]
- c. What are considered as the future technologies in web? [4 Marks]
- d. Explain ADDIE model used in instructional design. [6 Marks]

3.

- a. What is the role of an instructional designer? [4 Marks]
- b. Explain how to apply Kirkpatrick's Four-Level Training Evaluation Model to objectively analyze the effectiveness and impact of your training. [8 Marks]
- c. The theories of learning are based on three major traditions: Behaviorism, Cognitivism and Constructivism. Discuss the primary concerns of these approaches and their strong points as theories of human learning. [6 Marks]
- d. List three (03) guidelines that should be followed when using copyrighted materials in web based learning? [3 Marks]
- e. Explain how "Creative Commons" can be used instead of copyrighted material. [4 Marks]

4.

- a. What is Shareable content Reference Model (SCORM)? Explain four (04) main properties of SCORM. [8 Marks]
- b. Explain how SCORM is used in LMSs. Explain using a diagram. [6 Marks]
- c. Compare and contrast SCORM versus Common Cartridge. [7 Marks]
- d. "Educational technology refers to the effective use of technological tools to achieve the best fit pedagogy." Discuss. [4 Marks]