

UNIVERSITY OF COLOMBO

FACULTY OF EDUCATION

BACHELOR OF EDUCATION EXAMINATION (PART III) - SEMESTER I- 2019/2020

ICT 409 – Information & Communication Technology

THREE (03) HOURS

Answer five (5) questions including the question no 1.

1.

- i. Assume you were asked to create the mark sheet of students. List and explain ten (10) functions you can use with suitable examples.
(10 marks)
- ii. Briefly explain three (3) fields of occupations where you can use spreadsheet applications.
(05 marks)
- iii. Briefly explain five(5) advantages of using MS PowerPoint software in the school classroom.
(05 marks)
- iv. Briefly explain five(5) facts to be considered when preparing a lesson using MS PowerPoint.
(05 marks)
- v. Briefly explain five(5) advantages of using MS Word software in the field of education.
(05 marks)
- vi. Briefly explain three(3) challenges faced by teachers of using above mentioned software in the school classroom and explain how to overcome it.
(10 marks)

2.

- I. Briefly explain applications of Information and Communication Technology. (05 marks)
- II. Briefly explain the environmental issues, ethical issues and legal issues caused by information and communication technology. (05 marks)
- III. Focusing on the evolution of processors, uncover the unique changes that have taken place in the computer through the generations. (05 marks)

3.

- I. What is hardware? Briefly describe input devices, output devices, and storage devices with **two(2)** examples each. (05 marks)
- II. What is software? Briefly describe the software classification with examples. (05 marks)
- III. As a teacher imagine that you have to buy a computer for learning and teaching in the school classroom. Briefly explain the most appropriate package with reasons. List out some examples of software to be installed in the selected computer. (05 marks)

	Option 1	Option 2	Option 3
Processor	i7 generation 10	i5 generation 10	Core 2 Duo
RAM	8 GB	4 GB	4 GB
Hard Disk	1 TB	2 TB	512 GB
Keyboard	wireless	Wired(USB)	Wired(USB)
Mouse	wireless	Wired(USB)	Wired(USB)
Operating System	Microsoft windows 10	Microsoft windows 10	Microsoft windows 10
Price	Rs. 120000	Rs. 98000	Rs. 55000

4.

- I. Draw a diagram and briefly explain the architecture of a computer presented by the scientist John von Neumann in 1945. (05 marks)
- II. How a Learning Management System (LMS) will facilitate to be a professional teacher in teaching learning process? Explain. (05 marks)
- III. Briefly describe the ways in which information technology can be used to cover and evaluate the curriculum during the pandemic and the advantages and disadvantages of using them. (05 marks)

5.

- I. What is internet, www and e-mail? Briefly explain. (05 marks)
- II. Explain five primary functions of the internet? (05 marks)
- III. Explain five facts a teacher must consider when using internet and e-mails in teaching learning process? (05 marks)

6.

- I. Explain the use of games as a media(gamification) in teaching. (05 marks)
- II. Briefly describe the practical difficulties in using smart technology. (05 marks)
- III. The technology cannot replace the traditional teacher. Critically review on this statement. (05 marks)

7.

Briefly describe three of the followings.

(05 marks*3)

- a) Smart classroom
- b) Learning through social networks
- c) Cloud network
- d) Virtual reality
- e) Artificial intelligence