



NALANDA COLLEGE – COLOMBO 10
G.C.E. (A/L) EXAMINATION – 2020

Unit Test
Unit 1

Information & Communication Technology

Index Number/ Name :

Part - 1

A - Select the most suitable answer for the following questions

1) Underline the characteristics of information

- (i). Relevance, Timeliness, Accuracy, Completeness, Understandability
- (ii). Relevance, Availability, Timeliness, Completeness, Understandability
- (iii). Relevance, Completeness, Availability, Accessibility, Understandability
- (iv). Relevance, Timeliness, Availability, Accuracy, Understandability
- (v). Relevance, Availability, Accuracy, Completeness, Understandability

2) Select the correct set of input devices

- (i). Mouse, Keyboard, joystick, Printer
- (ii). Monitor, Projector, Printer, Speaker
- (iii). Microphone, Scanner, Mouse, Trackball
- (iv). Touch pad, Speaker, Microphone, Monitor
- (v). Mouse, Projector, Scanner, Joystick, Touchpad

3) Select the correct set of output devices

- (i). Mouse, Keyboard, joystick, Printer
- (ii). Monitor, Projector, Printer, Speaker
- (iii). Microphone, Scanner, Mouse, Trackball
- (iv). Touch pad, Speaker, Microphone, Monitor
- (v). Mouse, Projector, Scanner, Joystick, Touchpad

4) “..... and is **not** one of the three basic reference model on which cloud computing was based.”

- A. Infrastructure as a service (IaaS)
- B. Platform as a service (PaaS)

- C. Software as a service (Saas)
- D. Information as a service (Iaas)
- E. Storage as a service (Saas)

Select the correct answer from the following to fill the blanks in the above statement.

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|-------------|--------------|------------|
| (i). A & B | (iii). B & D | (v). A & C |
| (ii). D & E | (iv). C & E | |

- 5) Sam purchased a software with proprietary license. His friend Nimal borrowed that software and copied it to a CD.

Consider the following statements:

- A. . Even though Sam paid for the software he had no right to let others have a copy.
- B. Nimal received the software through his best friend, so it's not considered software piracy.
- C. Copying down of the software by Nimal is considered illegal.

Which of the above statements are true?

- | | | |
|--------------|------------------|-------------------|
| (i). A only | (iii). C only | (v). A and B only |
| (ii). B only | (iv). A & C only | |

- 6) Which of the following statements is correct with respect to a scanner?

- (i). A scanner is software which scans a printed document and converts them into digital images.
- (ii). It is an output device.
- (iii). It is an Input device.
- (iv). The Optical character reader (OCR) is an essential software component of a scanner.
- (v). It is used to store moving images in digital form.

- 7) Select the correct example for a firmware.

- (i). Device driver of a printer.
- (ii). Word processing software of a computer.
- (iii). OS of a computer
- (iv). BIOS of a computer.
- (v). Device driver of a pendrive.

- 8) Consider the following statements regarding information.

- A. A system can be defined as an interrelated components work together to achieve a common objective..

- B. A system is made up of inputs, processing and output.
- C. Human Respiratory system cannot be considered as good example for a system.

Which of the above statements is/ are correct?

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|--------------|------------------|-----------------|
| (i). A only | (iii). C only | (v). A & C only |
| (ii). B only | (iv). A & B only | |

9) Select the incorrect example for tools used in data gathering methods .

- (i). Sensors.
- (ii). Bar code reader
- (iii). Optical character reader (OCR).
- (iv). Magnetic strip reader
- (v). Liquid crystal displays

10) Consider the following statements regarding information.

- A. The value of information does not depend on its relevance.
- B. The highest value of information is considered to be at the creation time or the time information is released.
- C. The value of the information is reduced gradually with the time and become less valuable.

Which of the above statements is/ are correct?

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|---------------|--------------------|-----------------------|
| (vi). B only | (viii). A & C only | (x). All of the above |
| (vii). C only | (ix). B & C only | |

11) Select the correct example for an open source software.

- (i). Microsoft Word
- (ii). Ubuntu
- (iii). Microsoft Powerpoint
- (iv). Mac OS
- (v). Auto CAD

12) Consider the following on computer processors

- A - Speed
- B - Capacity
- C- Number of pins in the processor

Which of them is / are not considerable when purchasing a computer?

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|--------------|------------------|-----------------|
| (i). A only | (iii). B only | (v). A & B only |
| (ii). C only | (iv). B & C only | |

13) Select the correct order of data processing life cycle

- (i). Data gathering ,Data validation ,Data processing ,Data output ,Data storage
- (ii).Data gathering, Data processing ,Data output ,Data storage, Data validation
- (iii).Data gathering, Data storage, Data processing ,Data output , Data validation
- (iv). Data validation, Data gathering, Data storage, Data processing ,Data output
- (v).Data output, Data gathering, Data storage, Data processing, Data validation

14) Consider the following sentences,

A - An Operating system is needed to manage hardware and software

B - An operating system is an application software.

C- Fedora is an proprietary software

Which of the above can be considered correct regarding an operating system?

- (i). A only
- (ii). C only
- (iii). B only
- (iv). B & C only
- (v). A & B only

15) Consider the following sentences,

A - Firmware is a computer program that is "embedded" in a hardware device.

B - It is an essential part of the hardware .

C- In computers firmware is embedded in the ROM.

Which of the above can be considered correct regarding an operating system?

- (i). A only
- (ii). B & C only
- (iii). B only
- (iv). All A, B & C
- (v). A & B only

B- Provide suitable answers for the following questions.

- 1) Give three main advantages of processing data with computers compared to the manual system.

(i).
(ii).
(iii).

- 2) Briefly describe the Golden rule of information with 2 examples taken from day to day life.

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- 3) Illustrate the abstract model of information.

- 4) What are the four major components of a computer?

(i).
(ii).
(iii).
(iv).

- 5) Give the three memory classifications and briefly explain them.

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6) Give 5 examples for networking devices

- (i).
- (ii).
- (iii).
- (iv).
- (v).

7) Give the two types of software and briefly explain them.

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8) Give 4 examples for application (instances) of automatic data processing

- (i).
- (ii).
- (iii).

9) Briefly explain the following:

- (i). 'Open source software' and 'proprietary software'.

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- (ii). Firmware and Liveware

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- (iii). Stealing / Phishing

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(iv). Copyright / Intellectual Property laws

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(v). Plagiarism

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(vi). Licensed / unlicensed software

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10) Describe the different modes data input.

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Part 2

1.

- 1) Explain the difference between the following with suitable examples:
 - a)
 - (i). Quantitative data
 - (ii). Qualitative data
 - b)
 - (i). Data
 - (ii). Information
- 2) Briefly illustrate the Lifecycle of Data with a suitable diagram and explain.
- 3) Write short notes on the following:
 - a) The internet
 - b) Cloud computing
 - c) Big Data analytics

2.

- 1) Give the five steps of data processing.
- 2) Explain how each of the above steps is conducted using suitable examples.

3.

- 1) "The applicability of ICT in the field of Law enforcement is vital in the modern society."
Can this statement be considered as true? give your opinion with an explanation.
- 2) Briefly explain the following:
 - a) Social and economic benefits of ICT
 - b) Environmental issues caused by ICT