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ATD LEVEL I

DCM LEVEL I

INFORMATION COMMUNICATION TECHNOLOGY

TUESDAY: 31 August 2021.   **Time Allowed: 3 hours.**

Answer any FIVE questions.   **ALL questions carry equal marks.**

QUESTION ONE

(a)   Many organisations have embraced the concept of cloud computing.

Required:
Explain three disadvantages of cloud computing.   (6 marks)

(b)   The management of ABC Ltd. is planning to install a Local Area Network in the organisation.

Outline five ways the company will benefit as a result of the new infrastructure.   (5 marks)

(c)   Describe four factors that you would consider when determining the type of network topology to use.   (4 marks)

(d)   Veronica bought a laptop with the following specifications:

Windows 10 Pro, 11th Gen Intel®, HP Sure Shutler and HP Sure View Reflect Privacy Screen.

Required:
Explain each of the above specifications.   (5 marks)
(Total: 20 marks)

QUESTION TWO

(a)   List four types of files extensions.   (4 marks)

(b)   Explain four factors that you might consider when selecting an application software package.   (4 marks)

(c)   Computers have become an integral part of life and work.

Describe four suitable applications that investment groups could use if they computerise their operations.

(8 marks)

(d)   List two examples of devices in each category below:

   (i)   Softcopy output device.   (2 marks)

   (ii)   Hardcopy output device.   (2 marks)
(Total: 20 marks)

QUESTION THREE

(a)   (i)   Describe four occupational diseases associated with people who spend a lot of time using computerised information system.   (4 marks)

   (ii)   Suggest the remedy available for each of the occupational diseases identified in (a) (i) above.   (4 marks)

(b)   Using a diagram, illustrate the relationship between information systems and organisation in terms of users, functional perspective and levels of management.   (6 marks)

(c)   Summarise six guidelines that you would follow to evaluate the quality of an operating system.   (6 marks)
(Total: 20 marks)

QUESTION FOUR

(a)   Draw the following components used in a computer network:

      (i)   MiFi.   (1 mark)

      (ii)   Server.   (1 mark)

      (iii)   Wireless router.   (1 mark)

      (iv)   RJ45 UTP cable.   (1 mark)

(b)   Describe four advantages of using wireless peripherals.   (4 marks)

(c)   Explain the relationship between data and information.   (4 marks)

(d)   Summarise four business objectives of investing in information systems by a firm.   (4 marks)

(e)   State two advantages and two disadvantages of using application packages by a business firm.   (4 marks)

(Total: 20 marks)

QUESTION FIVE

(a)   Outline four characteristics of a good storage system.   (4 marks)

(b)   State four categories of programming languages suggesting the basic reason behind their evolution.   (6 marks)

(c)   Using an illustration, explain three types of network topologies.   (6 marks)

(d)   State four physical security measures that could be put in place to protect an organisation's hardware and software.

(4 marks)

(Total: 20 marks)

QUESTION SIX

(a)   Using illustrations, recommend two file access methods you could use during file design.   (4 marks)

(b)   Explain three factors fostering growth of end user computing in modern computing environment.   (6 marks)

(c)   Explain four positive impacts of teleworking to each of the following:

      (i)   An organisation.   (4 marks)

      (ii)   The society.   (4 marks)

(d)   State three business reasons for using secondary storage devices.   (2 marks)

(Total: 20 marks)

QUESTION SEVEN

(a)   Summarise four business strategic objectives of information systems.   (5 marks)

(b)   Benchmarking is one of the key steps during hardware acquisition.

      Explain the relevance of this step.   (2 marks)

(c)   Explain the following terms as used in emails:

      (i)   Cc.   (1 mark)

      (ii)   Bcc.   (1 mark)

      (iii)   Attachment.   (1 mark)

      (iv)   Backscatter.   (1 mark)

      (v)   Subject.   (1 mark)

(d)   Outline five ways to minimize errors in a computerized information system.   (5 marks)

(e)   Highlight three advantages of using 5G network over 4G network.   (3 marks)

(Total: 20 marks)

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