kasneb

DICT LEVEL I

INTRODUCTION TO COMPUTING

MONDAY: 20 May 2019.   Time Allowed: 3 hours.

Answer ALL questions. Marks allocated to each question are shown at the end of the question.

QUESTION ONE
(a)   Distinguish between the following terms as used in computing:

    (i)   "Chip" and "card".   (4 marks)

    (ii)   "Optical disk" and "hard disk"   (4 marks)

(b)   Citing three reasons, justify the case for integrating parental controls in computers and other digital devices. (6 marks)

(c)   In an information technology seminar, one of the facilitators noted that "working of a computer software is as good as the developers instructions".

    Required:
    Highlighting three points, defend the above statement.   (6 marks)
                                               (Total: 20 marks)

QUESTION TWO
(a)   (i)   Outline three options that a user has when acquiring an application software.   (3 marks)

    (ii)   For each of the options identified in (a) (i) above, state one advantage and one disadvantage.   (6 marks)

(b)   Differentiate between the following data processing terms:

    (i)   "Transaction file" and "audit file".   (4 marks)

    (ii)   "Data validation" and "data verification".   (4 marks)

(c)   Explain the following terms as used in computer display screens:

    (i)   Resolution.   (1 mark)

    (ii)   Dots per inch.   (1 mark)

    (iii)   Multiscan.   (1 mark)
                                             (Total: 20 marks)

QUESTION THREE
(a)   Outline four types of information systems.   (4 marks)

(b)   Citing four reasons, explain the importance of active participation of senior management in design of information systems.   (8 marks)

(c)   Governments in most countries are currently embracing the use of information communication technology (ICT) in operations and service delivery:

Required:
(i)   Explain two benefits of e-government.   (4 marks)

(ii)   Analyse two challenges of e-government.   (4 marks)
                                                                                        (Total: 20 marks)

QUESTION FOUR
(a)   Explain the following terms as used in computing:

(i)   Worm.   (2 marks)

(ii)   Trojan Horse.   (2 marks)

(b)   Computer viruses are a nuisance to the working of a computer.

        Highlight four ways of mitigating their impact.   (4 marks)

(c)   Analyse four reasons why organisations are embracing distributed data processing systems.   (8 marks)

(d)   Summarise four benefits of using liquid crystal displays as compared to cathode ray tubes.   (4 marks)
                                                                                        (Total: 20 marks)

QUESTION FIVE
(a)   Explain the meaning of the following terms as used in social media:

(i)   Twitter.   (1 mark)

(ii)   You tube.   (1 mark)

(iii)   Spam.   (1 mark)

(iv)   Blog.   (1 mark)

(b)   Describe each of the following types of information systems decisions, stating the level in the organisation's management pyramid that each is most likely to be made:

(i)   Strategic decisions.   (2 marks)

(ii)   Operational decisions.   (2 marks)

(iii)   Tactical decisions.   (2 marks)

(c)   Analyse three areas in organisations where jobs have been lost as a result of adopting information communication technology (ICT).   (6 marks)

(d)   Differentiate between "file activity" and "file volatility".   (4 marks)
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