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Time Allowed: 3 hours.

CICT PART I SECTION 1

INTRODUCTION TO COMPUTING

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

QUESTION ONE Explain the following terms as used in cloud computing: (2 marks) (i) XaaS. (2 marks) (ii) SaaS. (b) (i) Describe a "concept keyboard" as used in computing. (2 marks) (ii) Cite one application of concept keyboard in a business. () mark) (5 marks) (c) Describe five characteristics of a good computer network. Explain the following terms as used in information communication technology: (d) (2 marks) (i) Bitmap. (2 marks) (ii) Program. (2 marks) (iii) GIGO. (2 marks) WYSIWYG. (iv)

OUESTION TWO

MONDAY: 21 May 2018.

- (a) Distinguish between the following terms as used in computer storage:
 - (i) "PROM" and "EPROM".

(4 marks)

(Total: 20 marks)

(ii) "DVD" and "Blue Ray Disc".

(4 marks)

(b) You have a colleague who is visually impaired. He is interested in using a computer.

Recommend three devices that he could use.

(3 marks)

(c) While working on your computer, your monitor displays the following message:

BIOS Error – failed to overclock.

Required:

Explain three causes of the above error.

(3 marks)

(d) The managers of Jaribu Company Ltd. are considering installing a computer network in the organisation. The managers are carrying out an assessment of the costs associated with the network.

Required:

Advise the management of Jaribu Company Ltd. on six costs they might incur over the entire life cycle of the network.

(6 marks)

(Total: 20 marks)

| QUES (a) | STION T Outlin | HREE e four steps of uninstalling a computer program. | (4 marks) | |
|-------------|--|--|-----------------------------|--|
| (b) | (i) | Convert 2015 ₈ to base 16. | (2 marks) | |
| | (ii) | Convert 1011011 ₂ to octal. | (2 marks) | |
| | (iii) | Calculate the following, giving the sum in denary: | (4 marks) | |
| | | $301_8 + 1001101_2$ | (4 marks) | |
| (c) | Identify two activities that are supported by each of the following system utilities: | | | |
| | (i) | File manipulation. | (2 marks) | |
| | (ii) | Status information. | (2 marks) | |
| | (iii) | File modification. | (2 marks) | |
| | (iv) | Communication. | (2 marks) (Total: 20 marks) | |
| QUES (a) | STION F (i) | FOUR Explain the term "wiki" as used in information communication technology. | (2 marks) | |
| | (ii) | List three types of wiki. | (3 marks) | |
| (b) | The o | A digit circuit has four inputs D, C, B, A representing the binary values 0000 to 1111 (0 to 15 decimal). The output F is true if the input falls in the range 8 to 10 (inclusive), or if the input is divisible by 3, or if the input is divisible by 7 otherwise it is false. Zero is considered as indivisible by 3 or 7. | | |
| | | Required: Construct a truth table for this system. (5 marks) | | |
| (c) | Sugge | Suggest four poor environmental conditions that an employee might encounter in a computer work station. (4 marks | | |
| (d) | You are a consultant in an information communication technology (ICT) consultancy company. A client approached you in the following situation: | | | |
| | He runs a publishing company and has been outsourcing the computerised publishing operation. He now wants to computerise the publishing process. He has acquired the necessary hardware. | | | |
| | Requ Citing | Required: Citing an example in each case, list three types of software he might purchase for the publishing operation. | | |
| | | | (6 marks) (Total: 20 marks) | |
| QUE (a) | STION I Ident | FIVE ify four special keys in a QWERTY keyboard. | (4 marks) | |
| (b) | High | Highlight five validation checks performed during data entry. (5 marks) | | |
| (c) | Asse | Assess five methods used to attack computer passwords. (5 marks | | |
| (d) | Outli | ne a six-step procedure for updating computer BIOS without using the operating system. | (6 marks) (Total: 20 marks) | |