KASNEB

DICT LEVEL I

INTRODUCTION TO COMPUTING

,ww.masomomsindi.com TUESDAY: 17 November 2015. Time Allowed: 3 hours. Answer ALL questions. Marks allocated to each question are shown at the end of the question. **QUESTION ONE** (a) Citing an example in each case, describe the following types of computer software: (2 marks) General purpose application software. (2 marks) (ii) Special purpose application software. (2 marks) (iii) Bespoke application software. (7 marks) (b) Outline seven computer hardware components that are often inside the computer case. (3 marks) (c) (i) Explain the term "computer storage device". (4 marks) (ii) Citing suitable examples, differentiate the two types of computer storage devices. (Total: 20 marks) **QUESTION TWO** Describe four operations which are performed by a computer to enable it carry out various data processing activities. (8 marks) (10 marks) (b) Analyse five components of data hierarchy. Distinguish between "fixed length records" and "variable length records" in the context of computer files. (2 marks) (c) (Total: 20 marks) **OUESTION THREE** (6 marks) Describe three types of information used for decision-making in a business organisation. (a) (b) There are advantages and disadvantages of working from home for both the employer and employee. Required: Summarise two advantages and two disadvantages of working from home on the part of: (4 marks) (i) Employee. (4 marks) (ii) Employer. (6 marks) (c) Examine six sources of risk to data and information in an information system. (Total: 20 marks) **QUESTION FOUR** (5 marks) Identify five negative impacts of information systems on society. (a) (4 marks) (b) (i) Explain the term "transaction processing". (5 marks) (ii) Outline five examples of transaction processing systems. Describe six activities that could be taken in order to maintain information systems' integrity. (6 marks)

(c)

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(Total: 20 marks)

QUESTION FIVE

(a) Explain six components of an information system.

(b) Distinguish between "analogue computer" and "digital computer".

(c) Identify six limitations of flat file systems that precipitated the development of database management systems.

(d) Using a clearly labelled diagram, illustrate the fundamental components of a computer system.

(4 marks)

(7 total: 20 marks)