

# KASNEB

## CPA PART II SECTION 4

## CS PART II SECTION 4

## CCP PART II SECTION 4

### MANAGEMENT INFORMATION SYSTEMS

FRIDAY: 27 November 2015.

Time Allowed: 3 hours.

Answer any FIVE questions.

ALL questions carry equal marks.

#### QUESTION ONE

- (a) (i) Outline six basic types of e-commerce. (6 marks)
  - (ii) Identify five disadvantages of e-commerce. (5 marks)
  - (b) (i) Describe five components of data communication. (5 marks)
  - (ii) Highlight four factors which affect the performance of a computer network. (4 marks)
- (Total: 20 marks)

#### QUESTION TWO

- (a) Distinguish between "information system" and "management information system". (4 marks)
  - (b) Discuss six ways of classifying management information systems by application. (12 marks)
  - (c) Outline four functionalities accomplished by a complete business information system. (4 marks)
- (Total: 20 marks)

#### QUESTION THREE

- (a) Describe five physical classifications of computer configuration. (5 marks)
  - (b) Evaluate six advantages and three disadvantages of a distributed computer system. (9 marks)
  - (c) Outline six services provided by enterprise applications. (6 marks)
- (Total: 20 marks)

#### QUESTION FOUR

- (a) (i) Analyse two major aspects of information system security. (4 marks)
- (ii) Explain three aspects of guaranteeing effective information system security. (3 marks)
- (b) Information systems bring about immense social changes, threatening the existing distribution of power, money, rights and obligations. It also raises new types of crimes, like cyber crimes.

#### Required:

Suggest four codes of ethics and professional conduct that could be adopted by information systems professionals.

(4 marks)

- (c) To deliver genuine benefits, information systems must be built with a clear understanding of the organisation in which they will be used.

#### Required:

Examine six factors to be considered when planning a new information system.

(6 marks)

- (d) Describe three basic competitive information system strategies which an organisation could apply. (3 marks)

(Total: 20 marks)

#### QUESTION FIVE

- (a) Enumerate six characteristics of a well designed computerised management information system. (6 marks)
- (b) Describe four types of decision support systems. (8 marks)
- (c) In management information system (MIS), information is recognised as a major resource. If this resource is to be well managed, it calls upon the management to plan for it and control it so that the information becomes a vital resource for the system.

#### Required:

Identify six challenges which could affect the effectiveness of implementation of a management information system.

(6 marks)

(Total: 20 marks)

#### QUESTION SIX

- (a) (i) Outline seven strategic information systems applications. (7 marks)
- (ii) Summarise four differences between strategic information systems and management information systems. (4 marks)
- (b) (i) Enumerate six significant information systems security challenges to a business organisation. (6 marks)
- (ii) Highlight three capabilities of authentication that could make it overcome information systems security threats. (3 marks)

(Total: 20 marks)

#### QUESTION SEVEN

- (a) (i) Citing an example in each case, identify five e-commerce business models which involve transactions between the government and other entities. (10 marks)
- (ii) Outline five key players in the credit card payment process. (5 marks)
- (b) Examine five types of data processing applications in the context of cloud computing. (5 marks)

(Total: 20 marks)

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