KASNEB

CPA PART II SECTION 4
CS PART II SECTION 4
CCP PART II SECTION 4

MANAGEMENT INFORMATION SYSTEMS

PILOT PAPER

September 2015.

Answer any FIVE questions.

Time Allowed: 3 hours.

ALL questions carry equal marks.

QUESTION ONE

(a) Highlight six advantages of adopting ICT in business. (6 marks)

(b) Outline four principal duties of the following ICT personnel:
   (i) ICT Manager. (4 marks)
   (ii) Computer Technician. (4 marks)

(c) Explain the meaning of the following ethical concepts:
   (i) Business ethics. (3 marks)
   (ii) Technology ethics. (3 marks)

(Total: 20 marks)

QUESTION TWO

(a) Zack Ltd. has been performing poorly in the soft drinks industry. A consultant has advised the directors of the company to undertake business process re-engineering.

Required:
   Explain four major pitfalls faced by information systems managers in attempting to re-engineer organisations. (8 marks)

(b) Distinguish between an "evolutionary prototype" and an "exploratory prototype" as used in prototyping. (4 marks)

(c) Highlight four types of reports produced by information systems in an organisation. (4 marks)

(d) Enumerate four benefits of an information systems strategy to an organisation. (4 marks)

(Total: 20 marks)

QUESTION THREE

(a) Highlight five business opportunities that can be harnessed using cloud computing by an organisation. (5 marks)

(b) Transaction Processing Systems (TPS) are the backbone of any organisation’s information system.

Required:
   (i) State four reasons why business managers must be conversant with transaction processing systems. (4 marks)
   (ii) Outline the transaction processing cycle. (5 marks)

(c) Explain sequentially the steps taken during the information systems risk assessment process. (6 marks)

(Total: 20 marks)
QUESTION FOUR
(a) (i) Examine three advantages of applying the database approach in information systems. (6 marks)
(ii) Describe three techniques that can be used to profile online shoppers for purposes of business forecasting. (6 marks)
(b) Enumerate four business opportunities in e-commerce. (4 marks)
(c) Examine two vulnerabilities which an organisation may be exposed to after commissioning a computer network with an internet connection. (4 marks)
(Total: 20 marks)

QUESTION FIVE
(a) Explain four legal, social and ethical issues raised by information systems. (4 marks)
(b) Analyse four major file processing activities. (4 marks)
(c) Highlight four circumstances under which it might be deemed appropriate for an organisation to outsource information technology. (4 marks)
(d) Evaluate four key activities undertaken in the following phases of system development:
(i) System design phase. (4 marks)
(ii) System implementation phase. (4 marks)
(Total: 20 marks)

QUESTION SIX
(a) Corporate governance in information and communication technology (ICT) requires that management plan, control, evaluate and monitor current and future use of information systems.

In light of the above statement:
(i) Highlight four specific objectives that must be met in order to provide reasonable assurance of the security of information systems. (4 marks)
(ii) Explain four ways in which management policy and controls can be used to safeguard information systems in an organisation. (8 marks)
(b) Distinguish between a “decision support system” and an “executive information system”. (4 marks)
(c) Highlight four benefits of the waterfall methodology of system development. (4 marks)
(Total: 20 marks)

QUESTION SEVEN
(a) Identify four advantages of data warehousing. (4 marks)
(b) Outline four common uses of an extranet in an organisation. (4 marks)
(c) Mobile computing devices are increasingly being used in businesses today because of their convenient portability.

Required:
State four ways of minimising theft of mobile computing devices when using them outdoor. (4 marks)
(d) (i) Identify five characteristics which might indicate that an information system has reached the end of its economic life. (5 marks)
(ii) Outline three ways in which “internet of things” is benefitting small and medium sized businesses. (3 marks)
(Total: 20 marks)