# **KASNEB**

#### **CPA PART II SECTION 4**

### CS PART II SECTION 4

### CCP PART II SECTON 4

## MANAGEMENT INFORMATION SYSTEMS

FRIDAY: 27 May 2016.

Time Allowed: 3 hours.

Answer any FIVE questions.

ALL questions carry equal marks.

### QUESTION ONE

- (a) Distinguish between the following e-commerce business models:
  - (i) "E-tailer" and "market creator".

(4 marks)

(ii) "Content provider" and "service provider".

(4 marks)

- (b) Explain why the use of ICT risk management techniques is becoming increasingly important in managing information systems.
- (c) Describe the following ethical terms as used in an information society:
  - (i) Responsibility.

(2 marks)

(ii) Accountability.

(2 marks)

(iii) Liability.

(2 marks)

(d) Differentiate between a "boundary" and a "constraint" as used in system theory.

(2 marks)

(Total: 20 marks)

## QUESTION TWO

- (a) Suggest three reasons why it could be difficult to measure the benefits of information communication technology infrastructure in an organisation.
- (b) Propose six ways in which information communication technology (ICT) governance could act as a foundation for delivering the ICT strategy in an organisation. (6 marks)
- (c) Highlight eight disadvantages of using a database system in an organiation,

(8 marks)

(Total: 20 marks)

## QUESTION THREE

(a) ABC Ltd. is a small software development company employing 50 information communication specialists.

## Required:

Advise the company on how it could develop an information systems strategy.

(4 marks)

- (ii) Describe three criteria which the company could use to ensure that the information systems strategy developed in (a) (i) above is sound.
- (b) Evaluate ten internet abuses common in a modern workplace.

(10 marks)

(Total: 20 marks)

OI	UESTION	FOUR	
(a)		Distinguish between "business intelligence" and "advanced analytics" as used in organisations.	(4 marks)
	(ii)	In a computer network, noise in signal is the random disturbance or fluctuation in analogue or dis	gital signals.
		Explain four classifications of noise.	(8 marks)
(b)	(i)	Demonstrate the key difference between "backward error correction" and "forward error correction" are corrected as a correction and "forward error correction" are corrected as a correction and "forward error correction" are corrected as a correctio	
	(ii)	Designing a database requires an understanding of both the business functions to model a concepts and features used to represent those business functions.	
		Highlight three factors to consider when designing a database for an organisation.	(3 marks)
	(iii)	List three examples of enterprise systems used in business organisations.  (To	(3 marks)
1720	ESTION	FIVE	
(a)		the meaning of the following concepts as used in system theory:	
	(i)	Sub-optimisation.	(2 marks)
	(ii)	Decoupling.	(2 marks)
	(iii)	Equifinality.	(2 marks)
(b)	The systems approach to organisational problems emphasises the need to consider both hard and soft properties of system.		
	Differen	tiate between "hard properties" and "soft properties",	(4 marks)
(c)	Explain of inform	the relationship between file hit rate, file organisation method and type of storage device as used nation systems.	
(d)	Identify	four qualities of good management information.  (Tot	(4 marks)
QUE a)	STION SI Public de	IX.	AN CONTROL MARK
		omain software is a software that is not protected by copyright and thus may be duplicated by anyone the control of the contro	one at will.
		three reasons behind developing and distributing public domain software.	(6 marks)
b)	Distingui	ish between the following forms of computer crimes and abuses:	
	(i) Ja	amming and spamming.	(2 marks)
	(ii) C	yber bullying and flaming.	(2 marks)
	(iii) Si	nitfing and spoofing.	(2 marks)
()	One of the towards o	te emerging trends in information technology which has strategic implications for business firms pen systems.	
	Required		
	(i) Ex	plain the meaning of the term "open system concept".	(2 marks)

Suggest three implications of the move towards open systems for organisations that have already invested in

(ii)

proprietary information systems.

CA42, CS42 & CP42 Page 2 Out of 3

(2 marks)

(6 marks)

(Total: 20 marks)

QUE (a)	The i	NSEVEN introduction of information systems in organisations may lead ining.	d to changes in work processes that may require		
	Sugge	est three areas of training that might be required by the followin	g personnel:		
	(i)	Senior managers.	(3 marks)		
	(ii)	Users of the new system.	(3 marks)		
(b)	Identify the unique features of the following:				
	(i)	Digital markets.	(1 mark)		
	(ii)	Digital goods.	(1 mark)		
(c)	A firm's revenue model describes how the firm will earn revenue, generate profits, and produce a superior return on investment.				
		nired: uss six e-commerce revenue models.	(12 marks) (Total: 20 marks)		