





UNIVERSITY OF COLOMBO, SRI LANKA

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL) Academic Year 2010/2011 – 1st Year Examination – Semester 1

IT1104 – Information Systems & Technologies Multiple Choice Question Paper

5th March, 2011 (TWO HOURS)

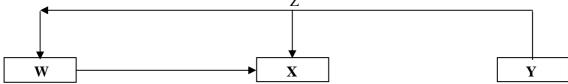
Important Instructions:

- The duration of the paper is 2 (Two) hours.
- The medium of instruction and questions is English.
- The paper has 45 questions and 09 pages.
- All questions are of the MCQ (Multiple Choice Questions) type.
- All questions should be answered.
- Each question will have 5 (five) choices with **one or more** correct answers.
- All questions will carry equal marks.
- There will be a penalty for incorrect responses to discourage guessing.
- The mark given for a question will vary from 0 to +1 (All the correct choices are marked & no incorrect choices are marked).
- Answers should be marked on the special answer sheet provided.
- Note that questions appear on both sides of the paper. If a page is not printed, please inform the supervisor immediately.
- Mark the correct choices on the question paper first and then transfer them to the given answer sheet which will be machine marked. Please completely read and follow the instructions given on the other side of the answer sheet before you shade your correct choices.

1)	Which of the following can be considered as a Tran	saction Processing System (TPS)?
	(a) a payroll system(c) a system used to purchase goods on-l(e) an order processing system	(b) a system used to diagnose medical illnessesine(d) a point of sales system
2)	Valuable information should be	
	(a) complex.(b) accurate.(c) expensive.(d) relevant.(e) verifiable.	
3)	Which of the following activities in the traditional sideveloped system is achieving the business needs or	oftware development life cycle determine(s) whether the f the organisation?
		systems Review (c) Systems Development systems Analysis
4)	Which of the following helps to govern the operation	on of a computer system?
	(a) output (c) software (e) processing	(b) input (d) feedback
5)	Data made up of numbers and letters are known a	s
	(a) image data.(c) alpha numeric data.(e) spatial data.	(b) numeric data.(d) noise data.
5)	Some types of application software are given on the terms is given on the right (P, Q, R).	e left hand side (A, B, C) and a brief description of these
	A - Customer Relationship Management (CRM)	P - a set of integrated programs capable of managing a company's vital business operations such as planning, manufacturing, finance, sales, marketing, etc.
	B - Supply Chain Management (SCM)	Q - helps to collect customer data, contact customers, educate about new products and sell products to existing and potential customers.
	C - Enterprise Resource Planning (ERP)	R - helps to determine what supplies are required for the value chain, what quantities are needed to satisfy customer orders etc
	Match the terms with the CORRECT descriptions.	
	(a) A-R, B-P, C-Q (b) (d) A-Q, B-P, C-R (e)	A-R, B-Q,C-P (c) A-Q, B-R, C-P A-P, B-Q, C-R

7)	The following statements are about	t organisational structures.	
	(ii) A "Virtual" organisational	cal" organisational structure the top/	ducts or services. Sound the world to work collaboratively. Strategic level management has a high
	Identify the CORRECT statement/	s.	
	(a) Only (i) (d) Only (ii)	(b) Only (i) and (ii) (e) (i), (ii) and (iii)	(c) Only (i) and (iii)
8)	Fill in the blank space with the mo	st appropriate word.	
	A system uses meet its objectives.	. to monitor and control its operation	ons to make sure that it continues to
	(a) input (d) storage	(b) feedback (e) processing	(c) output
9)	Which of the following definitions	refer(s) to 'timeliness' which is a c	haracteristic of valuable information?
	(b) contain all important (c) error free information (d) deliver information v	n	
10)	Organisations are able to achieve of	competitive advantage through	
	(a) selling. (d) finance.	(b) cost leadership.(e) planning.	(c) differentiation.
11)	The following statements are conn	ected with information systems.	
	(ii) A transaction processi	information systems to gain competing system can be helpful to provide tem is mainly used by operational/f	solutions to unstructured problems
	Identify the CORRECT statement/	s.	
	(a) Only (i) (d) Only (iii)	(b) Only (ii) (e) Only (ii) & (iii)	(c) Only (i) and (iii)
12)	A computer based information sys	tem consists of	
	(a) hardware. (b) people. (c) culture.		

13) Identify the components denoted by W,X,Y and Z.



(a) W-input	X-processing	Y-feedback	Z-processing
(b) W-processing	X-input	Y-feedback	Z-output
(c) W-input	X-processing	Y-output	Z-feedback
(d) W-input	X-feedback	Y-output	Z-processing
(e) W-processing	X-output	Y-input	Z-feedback

- 14) Consider the following incomplete statements.
 - (i) Organisational (A)..... refers to how organisational sub units relate to the overall organization.
 - (ii) Organisational (B)..... consists of major understandings, values and beliefs of an organisation.

Identify the appropriate words to fill in above blanks (A), (B) and (C) in the CORRECT order.

(a) (A)-culture	(B)-structure	(C)-culture
(b) (A)-culture	(B)-structure	(C)-structure
(c) (A)-structure	(B)-culture	(C)-structure
(d) (A)-structure	(B)-culture	(C)-culture
(e) (A)-culture	(B)-culture	(C)-structure

- 15) Components of a Central Processing Unit (CPU) include
 - (a) Random Access Memory.
 - (b) Registers.
 - (c) Read Only Memory.
 - (d) Control Unit.
 - (e) Arithmetic and Logic Unit.
- 16) A computer network of a company
 - (a) helps to share resources such as printers in an organization.
 - (b) facilitates collaborative work.
 - (c) makes company information vulnerable to attacks.
 - (d) does not require to implement mechanisms to make information secure.
 - (e) helps to inform employees about company information very quickly.
- 17) Which of the following is an/are object oriented programming language/s?

(a)	C++	(b)	COBOL	(c)	C
(d)	Java	(e)	PASCAL		

The following statements	are about an Information System ((S).		
(ii) A closed syst	ents of an IS work together to achie em always interacts with the environs extern undergoes many changes over	onment.		
Identify the CORRECT statement/s.				
(a) Only (i) (d) Only (ii) &	(b) Only (i) & (ii (iii) (e) Only (iii)	(c) Only (i) & (iii)		
Which of the following could be an issue for a global software developer?				
	oftware support globally n open source software iolations	(b) Complaints related to software bugs(d) Privacy violations		
Which of the following is	an/are Open Source software?			
(a) Linux (c) Visual Basic (e) Lotus Notes	,	(b) MS Office (d) Open Office		
	1			
Consider the following in	complete statements.			
ERP software is known as	s (A) software. s (B) software.			
ERP software is known as SCM software is known as Fill in the blanks in the Co (a) (A)-a work (b) (A)-an enter (c) (A)-a person (d) (A)-an enter	s (A) software. s (B) software.	(B)-an enterprise application (B)-an enterprise application (B)-an enterprise application (B)-a personal productivity application (B)-a personal productivity application		
ERP software is known as SCM software is known as Fill in the blanks in the Co (a) (A)-a work (b) (A)-an enter (c) (A)-a person (d) (A)-an enter	group application rprise application rprise application all productivity application rprise application	(B)-an enterprise application(B)-an enterprise application(B)-a personal productivity application		
ERP software is known as SCM software is known	group application rprise application rprise application all productivity application rprise application	(B)-an enterprise application (B)-an enterprise application (B)-a personal productivity application (B)-a personal productivity application advantage.		
ERP software is known as SCM software is known	group application reprise application reprise application reprise application reprise application reprise application reprise application group application group application group application	(B)-an enterprise application (B)-an enterprise application (B)-a personal productivity application (B)-a personal productivity application advantage.		
ERP software is known as SCM software in the COM (a)	group application reprise application reprise application reprise application reprise application reprise application reprise application group application group application end be bought off the shelf. ganizations to achieve competitive reloped by the in-house developmentatement/s.	(B)-an enterprise application (B)-an enterprise application (B)-a personal productivity application (B)-a personal productivity application advantage.		
ERP software is known as SCM software (a) (A)-a work (b) (A)-a work (c) (A)-a person (d) (A)-an enter (e) (A)-a work (e) (A)-a work (e) (a)-a work (ii) could help or (iii) cannot be deviated by the CORRECT states (a) Only (i) (c) Only (ii) and (e) Only (iii)	group application reprise application reprise application reprise application reprise application reprise application reprise application group application group application end be bought off the shelf. ganizations to achieve competitive reloped by the in-house developmentatement/s.	(B)-an enterprise application (B)-an enterprise application (B)-a personal productivity application (B)-a personal productivity application (B)-a personal productivity application advantage. nt team. (b) Only (i) and (ii) (d) Only (ii)		

24) The following statements are about computer waste and mistakes. Identify the CORRECT statement/s. (a) Even by implementing proper policies, computer waste and mistakes cannot be minimized. (b) Using corporate time and resources for personal use by employees is considered as a computer waste. (c) By disposing computer equipment the correct way, money, as well as the environment can be (d) Computer related waste and mistakes will never lead to reducing profits earned by an organization. (e) Information systems professionals should define proper information systems usage policies to ensure effective use of company resources. 25) Which of the following could threaten the security of an organisation? (a) implementing a security audit program (b) virus attack (c) sending encrypted messages across a network (d) implementing a firewall (e) use of an Intrusion Detection Systems (IDS) 26) Which of the following is a /are software development method/s more appropriate to be used when the user requirements are not clear/specific? (a) Traditional waterfall method (b) Prototyping (c) Outsourcing (d) End user computing (e) On demand computing 27) The following statements are based on Computer Crime. (i) Identity theft is a crime in which key personal details such as user id, passwords and national id numbers are obtained and used to act like someone else'. (ii) Software piracy is a computer crime. (iii) Trojan Horse is a program, attached to a network, which secretly records id numbers as well as passwords. Identify the CORRECT statement/s. (a) Only (i) (b) Only (ii) (c) Only (i) and (ii) (d) Only (iii) (e) Only (ii) and (iii) 28) The following statements are based on 'privacy rights' of employees and customers. (i) Providing personal information of customers to another company without notifying them could lead to violating privacy rights of customers. (ii) Monitoring employee activities without prior notice is a form of violation of the privacy of employees. (iii) Informing the policies and procedures of the company to the employees would lead to violation of privacy of employees. Identify the CORRECT statement/s.

(a) Only (i)

(c) Only (i) and (ii)

(e) Only (i) and (iii)

(b) Only (ii)

(d) Only (iii)

- Which of the following practices could lead to health issues or reduce productivity of people who work with computers?
 - (a) continuous use of CRT screens
 - (b) positioning the monitor above the eye level
 - (c) taking breaks without continuously working with computers
 - (d) repetitive motion of typing using a keyboard for long hours for a long period of time
 - (e) doing regular eye exercises
- 30) Compared to database approach to data management, traditional approach to data management
 - (a) reduces redundancy.

(b) reduces data integrity.

(c) is more expensive.

- (d) increases data redundancy.
- (e) makes easier modification and updating of records.
- 31) A,B,C, are terms related to the hierarchy of data. P, Q, R is a description of these terms.

 $\begin{array}{ll} A-record & P-a \ collection \ of \ characters \\ B-field & Q-a \ collection \ of \ fields \\ C-file & R-a \ collection \ of \ records \end{array}$

Match the terms A, B, C with the CORRECT description.

(a) A- P	B-Q	C-R
(b) A-Q	B-P	C-R
(c) A-Q	B-R	C-P
(d) A-R	B-Q	C-P
(e) A-R	B-P	C-Q

- 32) Following statements are based on data manipulation.
 - (i) Projecting is manipulating data to eliminate rows according to certain criteria.
 - (ii) Selecting is manipulating data to eliminate columns in a table.
 - (iii) Joining is manipulating data to combine two or more tables.

Identify the CORRECT statement/s.

- (a) Only (i)
- (b) Only (ii)
- (c) Only (iii)
- (d) Only (i) and (ii)
- (e) Only (ii) and (iii)
- Which of the following enable(s) to discover patterns and relationships in a large collection of historical data?
 - (a) data mining tools
 - (b) MS Excel
 - (c) Lotus Notes
 - (d) Linux
 - (e) MS Windows

	of the following is an /are example/s of a D	
	(a) MS Access	
	(b) MS Windows	
	(c) MySQL (d) Linux	
	(e) MS Outlook	
data	nmart is	
	(a) a data mining tool.	
	(b) a subset of a data warehouse.	
	(c) another name for a data warehouse.	
	(d) a name of a DBMS.	
	(e) a data modeling approach.	
) ecisi	on Support Systems	
	(a) support goal seeking and what-if ana	
	(b) processes information only through b	
		elbase and a user interface/dialogue manager.
		erform mathematical or quantitative analysis. tative analysis based on the company's databases
	(e) which are data driven, perform quant	ative analysis based on the company's databases
Vhich	n of the following is /are NOT (a) basic comp	ponent/s of a TPS?
	(a) databases	(b) networks
	(c) knowledge base	(d) procedures
	(e) hardware and software	
Which	n of the following is /are CORRECT regarding	ng interactive dialogue design?
		ems terms and acronyms as much as possible.
	(b) Users must be given more than 20 op	
	(c) Displays should be designed attractive	· ·
	(d) Messages should be grammatically c(e) Displays within a specific application	
	(c) Displays within a specific application	i should take different formats.
A syst	ems review that is caused by a problem with	an existing system is/are called a/an
	(a) object review.	(b) structured review.
	(c) event-driven review.	(d) periodic review.
	(e) scheduled review.	
	n of the following employs tools, techniques opment?	and methodologies designed to speed application
4C V C1(
	(a) waterfall method	
	(b) prototyping	
	(c) RAD	

(a) system design	
(b) feasibility study	
(c) GAANT Chart	
(d) systems review	
(e) requirement analysis	
Which of the following statements are	e CORRECT about Management Information Systems (MIS).
	ts such as demand and scheduled reports.
	nclude data from internal as well as external databases.
	support effective decision making.
	IIS can include financial statements.
(e) An MIS is capable of du	uplicating the features of a real system (simulation).
Organisations may consider outsourc	zing systems development
	ns development capabilities are limited.
(b) if the costs can be reduc	
	sing competitive advantage.
	can provide a better service.
(e) if the vendor (supplier) i	is not imanciany stable.
The following statements are about sp	pecialised information systems.
(i) Robotics is useful to be us	ed in situations that are dangerous to humans.
	to diagnose pests and diseases in rice crops.
(iii) AI systems demonstrate th	ne characteristics of intelligence.
dentify the CORRECT statement/s.	
(a) Only (i)	(b) Only (ii)
(c) Only (iii)	(d) Only (i) and (ii)
(e) (i), (ii) and (iii)	
	o systems conversion involve running both the old system and the hing to the new system, once the outputs are compared and the
lifferences are corrected.	ining to the new system, once the outputs are compared and the
(a) direct	(b) pilot start-up
(c) phase in	(d) parallel
(e) indirect	