



UNIVERSITY OF COLOMBO, SRI LANKA



UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL)

Academic Year 2020 – 1st Year Examination – Semester 1

IT1106 – Information Systems Multiple Choice Question Paper

11th September, 2020 (TWO HOURS)

Important Instructions:

The duration of the paper is 2 (two) hours.

The medium of instruction and questions is English.

The paper has 40 questions and 10 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 (All the incorrect choices are marked & no correct choices are marked) to +1 (All the correct 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.

All kinds of electronic devices including calculators are **not** allowed.

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the functions that they can per	form?	
(a) Input, Editing, Storage,	, Output	
(b) Input, Output, Processi	ng, Storage	
(c) Editing, Copying, Pasti	ing, Storage	
(d) Entering, Editing, Pasti	ing, Copying	
(e) Entering, Saving, Proce	essing, Output	
Which of the following hardw	are devices would show the most	detailed view of graphical content?
(a) 3D camera	(b) CCTV camera	(c) Very-high resolution display device
(d) Web camera used to record lectures	(e) Airplane's black box	
Which of the following is/are	(a) characteristic(s) of quality info	ormation?
(a) Accurate	(b) Complex	(c) Economical
(d) Verifiable	(e) Secure	
•	a specific task such as preparing manage computer memory and fil o major types of software.	
·	need application software.	
	computer system resources.	
fficiency of order processing.	Now, customers can place orders items and delivery address and em generates the invoices for the c	ew information system to increase the sonline by choosing the products they providing the right identification and customer approval and the bill of order. Deconsidered as system processes?
According to the above descrip	tion, which of the following can be	
(a) Choosing the products	tion, which of the following can e	
(a) Choosing the products	ms required	
(a) Choosing the products(b) Entering number of ite	ms required	

6) Major roles of information systems in business include the support of; (a) Business processes and operations (b) Business decision making (c) Business management and evaluation (d) Strategies for competitive advantage (e) Transactional data processing 7) According to Michael Porter's model, a company can successfully face competitive forces to survive and succeed in long runs only if it has developed strategies such as; (a) Cost leadership (b) Bargaining power of Suppliers (c) Threats of new entrants (d) Innovation (e) Imitation Careers in an information system (IS) organization can be categorized into three main functional groups 8) as operations, development and support. Which of the following careers belongs to the operations group in an IS organization? (a) Database (b) Help Desk Support Specialist (c) IS Security Analyst Administrator (d) System Administrator (e) System Analyst 9) Which of the following statements is/are CORRECT regarding "Shadow IT"? (a) It can be an information system, or a solution developed by a non-IT department in an organization. (b) It is an information system, or a solution developed by IT experts in an organization. (c) It helps business managers to quickly create innovative solutions to real business problems. (d) It refers to an information system or computing device deployed in a department without getting approval of the IT department of the organization. (e) It is a solution introduced by IT departments in order to quickly test many different software and purchase the ideal solution for the organization. 10) Which of the following statements is/are CORRECT regarding Business Process Re-engineering (BPR) and Business Process Improvement (BPI)? (a) The level of change in BPI is incremental while that in BPR is radial. (b) Risks associated with BPI is always higher than the risks associated with BPR. (c) BPI aims to make an improved version of the business process while BPR attempts to create

a brand-new business process.

(d) Compared to BPR, BPI can be completed in a shorter time period.(e) BPR takes a top-down approach while BPI is a bottom-up approach.

lists the	types of e-commerce	applications in the order they have	e been listed above?
(2	a) C2C, B2B	(b) B2C, C2C	(c) B2B, B2C
(0	d) C2B, B2B	(e) B2C, C2B	
Which o	of the following states	ments is/are CORRECT regarding	e-commerce?
(a) It is the process of	f buying and selling products or se	rvices via wireless handheld devices.
(b) All or most of the	transactions take place online.	
(c) It enables users to	make transactions from anywhere	e if they are connected to the Internet.
(d) Both retail and wh	nolesale can be conducted through	e-commerce.
(e) e-Commerce appl	ications can support manufacturing	g companies to reduce the inventory.
Which o	of the following states	ments is/are CORRECT regarding	online bartering?
(a) It is about buying	and selling products or services or	nline.
(b) It can support redu	ucing excess inventory.	
(c) This approach spe	eds up the movement of finished J	products to the customer.
(d) Tax-calculations a	and accounting are no-longer requi	ired.
(e) The risk of handli	ng money is solved.	
The type	es of mobile ad netwo	orks include;	
(2	a) Blind network	(b) normal network	(c) Premium network
(0	l) Premium blind network	(e) Cost per click network	
dried fru	uits and different size		te provides information related to types of improve their web site aiming to attract efficiently.
Which o	of the following activ	ities can be performed for this pur	pose?
(a) Add new content	to the Web site on a regular basis	
(b) Include meta tags	in the home page of the Web site.	
(c) Add links to other	reputable Websites having simila	r products.
(d) Use web site traff	ic data analysis software	
(e) Incorporate person	nalization techniques to capture cu	stomer data and build individual profiles.

11) daraz.lk, ikman.lk are two (2) different types of e-commerce applications. Which of the following options

	(a) They have a shared	l database of key operational	and planning data
		• •	ing systems in the organization.
		support for business analytics	
			business processes of the company.
			quickly than any other business information
A t	typical cloud-based Enterpr	ise Resource Planning (ERP)	systems can provide lots of benefits such
	(a) Safe access to data	from anywhere on any devic	e.
	(b) Conduct security cl	necks and take immediate act	ion on threats.
	(c) System offerings ca	an be scaled up or down to m	eet the business need.
	(d) Reduce infrastructu	are requirement and cost of ir	nformation system management.
	(e) Possibility of easy	customization and adaption b	y the end-users.
and ord the	d a few other countries. The ler to reduce costs. However company is planning to intr	ey find it difficult to maintain er, they do not like to lose the roduce a new information system.	all the stores and wish to close some store eir 200 suppliers and customers. As a solu tem. This system should link suppliers, reta
ord the and stir	d a few other countries. The ler to reduce costs. However company is planning to intra- d customers and monitor pr	ey find it difficult to maintain or, they do not like to lose the roduce a new information syst oduction. As a result, the com- mers and the management	all the stores and wish to close some store eir 200 suppliers and customers. As a solu tem. This system should link suppliers, reta mpany will be able to quickly deliver new
and ord the and stir ned	d a few other countries. The der to reduce costs. However company is planning to intro- d customers and monitor pr mulating products to custo cessary actions immediately	ey find it difficult to maintain or, they do not like to lose the roduce a new information syst oduction. As a result, the com- mers and the management	all the stores and wish to close some store ir 200 suppliers and customers. As a solutem. This system should link suppliers, retampany will be able to quickly deliver new will be able to monitor the process and
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(a) Transaction Processing System

(c) Enterprise Resource Planning System

(e) Customer Relationship Management system

(b) Management Information System

(d) Knowledge Management System

	(a) Marketing automation	(b) Social networking
	(c) Analysis	(d) Linking customers to the suppliers
	(e) Managing all relationships of the customers	
)	A typical Business Intelligence System can provide lots of business organization.	of benefits such as to an
	(a) Automatic decision making	
	(b) Easy preparation of reports	
	(c) Promote sharing expert knowledge	
	(d) Enhance visualization information	
	(e) In-depth analysis of data	
)	Which of the following can be considered as (a) feature(s)	of a common business intelligence (BI) tool?
	(a) Paraphrasing	
	(b) Querying	
	(c) Business process management	
	(d) Process mining	
	(e) Digital dashboards	
	Which of the following statements is/are CORRECT regard	rding "Word Cloud"?
	(a) It is a data visualization technique.	
	(b) It is a cloud network used to share Word docum	nents.
	(c) It is another term used for "conversion funnel".	
	(d) It can be generated by analyzing text documents	s or web pages.
	(e) It helps to send data quickly and securely.	
	The main purpose(s) of using online analytical processing	systems is/are to;
	(a) Analyze archived data.	
	(b) Show the current trends.	
	(c) Select and discard unnecessary data.	
	(d) help identifying issues and opportunities.	

26)	Consider the following statements and terms listed under col	umn A and column B.
	A	В
	i. Support non-technical end users to take i.	Slicing and dicing
	decisions based on facts and analyses. ii. iii. Perform to analyze trends and find time- iii.	Marketing and sales analysis Self-service analytics
	based patterns.	Sen-service analytics
	iii. A business area where online analytical	
	processing can solve complex problems.	
	Which of the following correctly matches the statements und	er column A with the terms under column B?
	(a) A(i)-B(i), A(ii)-B(ii), A(iii)-B(iii)	
	(b) A(i)-B(ii), A(ii)-B(iii), A(iii)-B(i)	
	(c) A(i)-B(iii), A(ii)-B(ii), A(iii)-B(i)	
	(d) A(i)-B(iii), A(ii)-B(i), A(iii)-B(ii)	
	(e) A(i)-B(i), A(ii)-B(iii), A(iii)-B(ii)	
27)	Which of the following is/are NOT (a) common software acq	uisition option(s)?
	(a) Build (b) Borrow	(c) Buy
	(d) Lease (e) Grid Computing	
20)	Which of the fellowing statements is/one TUDE according to	avilding avatam amplications as a math of af
28)	Which of the following statements is/are TURE regarding by acquiring software?	building custom applications as a method of
	(a) The software can be acquired and deployed very q	• •
	(b) The software service provider takes care of necess	• •
	(c) It might take months or years to make the software	e ready to deploy.
	(d) Cost of acquisition would be high compared to buy	ying.
	(e) Most likely to be the best for meeting stakeholder	requirements.
29)	What are the three (3) ways that an information system can a	dd value to an organization?
	(a) Gathering, Processing, Generating	
	(b) Automating, Informating, Strategizing	
	(c) Gathering, Automating, Processing	
	(d) Reading, Learning, Writing	
	(e) Strategizing, Reading, Generating	
	(c) Strategizing, Reading, Generating	
30)	Following are phases in the e-business innovation cycle	They are not in the correct order
30)	1 Tollowing are phases in the e-business innovation cycle	. They are not in the correct order.
	A. Assessing value	
	B. Choosing enabling/emerging technologi	
	C. Executing business innovation for grown	th
	D. Matching technologies to opportunities	

What is the correct order of phases in the e-business innovation cycle?

(a) D, C, B, A	(b) C, D, A, B	(c) A, B, D, C
(d) A, C, B, D	(e) B, D, C, A	

- Following is a list of unorganized steps in the package evaluation phase of a software package implementation process. Organizations go through these steps in order to make sure that they purchase the most appropriate off-the-shelf software to meet their needs.
 - A. Make selection.
 - B. Research top contenders.
 - C. Perform final evaluation of leading solutions.
 - D. Finalize contract.
 - E. Select top contenders.
 - F. Identify potential solutions

What is the correct order of the steps above?

(a) A, C, B, E, D, F	(b) E, B, F, A, C, D	(c) A, E, D, F, B, C
(d) B, E, A, F, D, C	(e) F, E, B, C, A, D	

SiniDu is a leading private company in manufacturing sports equipment. Ever since its inception, the company has been conducting almost all the core business processes manually. Recently, the company decided to develop an information system to support at least their internal activities. They have an information technology division and they are willing to learn new technologies. However, the company has several issues such as having inadequate internal expertise or a talent pool to develop the software in-house and the top management's discomfort with new technologies.

What would be the best solution to meet the above software requirement?

- (a) Outsourcing
- (b) In-sourcing
- (c) Co-sourcing
- (d) Off shoring
- (e) On-sourcing
- 33) Which of the following can be considered as (a) common computer-related mistake(s)?
 - (a) Mishandling of computer output
 - (b) Data entry/capture errors
 - (c) Data alteration by a virus attack
 - (d) Formatting a disk by mistake
 - (e) Installing pirate software

34) XZX is a software development company. They have more than 100 staff members. The staff used to work in groups that includes both members working remotely (online) as well as in the office. The company needs to prepare a set of policies and procedures to prevent computer related waste and mistakes.

Which of the following can be included in the list prepared for the above purpose?

- (a) Reduce the time spent on computers as much as possible.
- (b) Reuse the computers as long as possible and never dispose them.
- (c) Take print outs of all entered data to double check for mistakes.
- (d) Take backups regularly and store them both online and offline.
- (e) Shut down all computers and unplug all electrical devices at the end of the day.
- 35) Following is a set of unorganized activities to be done to prevent computer related waste and mistakes.
 - A. Make people aware of proper use and maintenance of information systems and resources.
 - B. Review existing policies and procedures to identify necessary improvements to be done.
 - C. Conduct audits to track the amount of time workers have used computers for non-work-related activities.
 - D. Establish policies and procedures to acquire, use and dispose information systems and devices.

Which of the following lists the activities in the correct order that they should be conducted?

(a) A, B, D, C	(b) A, C, B, D	(c) B, A, D, C
(d) D, A, C, B	(e) C, A, D, B	

- An individual who attacks a computer system or network mainly for the purpose of financial gain is called as a;
 - (a) Cracker
 - (b) Hacktivist
 - (c) Cyber Terrorist
 - (d) Cyber Criminal
 - (e) Industrial Spy
- 37) Which of the following statements is/are CORRECT regarding viruses and worms?
 - (a) Trojan Horse is a virus.
 - (b) Both Virus and Worm can replicate itself.
 - (c) Logic Bomb is a worm.
 - (d) Worms can propagate without human intervention.
 - (e) A virus can spread to another machine when a computer user shares an infected file.

38)	Rootkit	is	a	malware	that

- (a) deletes information from a computer.
- (b) makes it impossible to run some applications, such as Microsoft Word.
- (c) makes the network activities function extremely slowly.
- (d) enables intruders to gain administrator-level access to other's computers.
- (e) can actively hide itself or any information that could indicate its presence.
- 39) "Smishing" is a kind of?
 - (a) Phishing (b) Vishing (c) Spam (d) Scam (e) Zombie
- Which of the following can be recommended for computer users in order to avoid computer-related health problems?
 - (a) Keep the wrists nearly straight.
 - (b) Drink some tea or coffee while working.
 - (c) Place arms nearly perpendicular to the floor.
 - (d) Make sure that top of the monitor is at the user's eye level.
 - (e) Place the monitor 20 to 26 inches away from the CPU.
