# **Chapter 1: Introduction to Information Systems**

# **MULTIPLE CHOICE**

1.	Which of the followi organizations to import a. hardware b. software c. a feedback mech d. data	rove cus			of every inform	nation s	system that helps
	ANS: C	PTS:	1	REF:	p. 5	MSC:	Remember
2.	The value of information following?  a. their organization b. their organization c. their organization d. their organization	n's prof n's goal n's cost	its s reduction initia	ntives	·	n make	rs achieve which of the
	ANS: B	PTS:	1	REF:	p. 8	MSC:	Remember
3.							mance within his department.  b. What measure is he
	ANS: B	PTS:	1	REF:	p. 9	MSC:	Higher Order
4.	Vivek is assessing the interested in?  a. efficiency b. effectiveness c. productivity d. net worth	e lowes	t cost to build 2	20 comp	outers with the	shortes	t time frame. What measure is
	ANS: A	PTS:	1	REF:	p. 9	MSC:	Higher Order
5.	In information systema. forecasting b. feedback c. output d. conversion	ns, wha	t is used to mak	ke chan	ges to input or	process	ing activities?
	ANS: B	PTS:	1	REF:	p. 11	MSC:	Remember

6.	What is the term use large blocks of stock a. feedback b. analytics c. forecasting d. program trading	s, by co			tock indexes an	d mark	ets, including purchasing
	ANS: D	PTS:	1	REF:	p. 12	MSC:	Remember
7.	What consists of cora. information tech b. technology infra c. telecommunicati d. hardware	nology structur	• •	to perf	orm input, proc	essing,	and output activities?
	ANS: D	PTS:	1	REF:	p. 12	MSC:	Remember
8.	What type of hardware magnetic ink characta. storage hardware b. processing hardware c. output hardware d. input hardware	ters? e ware	eyboards, auto	matic s	canning devices	s, and e	quipment that can read
	ANS: D	PTS:	1	REF:	p. 13	MSC:	Remember
9.	What consists of cora. hardware b. software c. applications d. telecommunication		programs that g	overn tl	ne operation of	the con	nputer?
	ANS: B	PTS:	1	REF:	p. 13	MSC:	Remember
10.	Which of the following tasks, such as word parameters.  a. systems softward b. Windows 7  c. Microsoft Office d. Windows Vista	processing		_		allows	you to accomplish specific
	ANS: C	PTS:	1	REF:	p. 13	MSC:	Remember
11.	Which of the follows around the world to a. telecommunication b. telecommuting c. a network d. a database	enable e				uilding,	around the country, or
	ANS: C	PTS:	1	REF:	p. 13	MSC:	Remember

12.	<ul><li>a. 100 characters</li><li>b. 120 characters</li><li>c. 140 characters</li><li>d. 180 characters</li></ul>	tter twee	et be?				
	ANS: C	PTS:	1	REF:	p. 13	MSC:	Remember
13.	What is considered to a. hardware b. software c. procedures d. people	o be the	most importan	t eleme	ent in a compute	er-baseo	d information system?
	ANS: D	PTS:	1	REF:	p. 13	MSC:	Remember
14.							ows only selected outsiders, of a company's intranet?
	ANS: D	PTS:	1	REF:	p. 14	MSC:	Remember
15.	What involves using a. e-commerce b. e-business c. mobile commerce d. e-procurement		ation systems a	nd the l	Internet to acqu	ire part	s and supplies?
	ANS: D	PTS:	1	REF:	p. 16	MSC:	Remember
16.	What system, develor a. the transaction p b. the enterprise res c. the decision supp d. the e-commerce	rocessin source p port syst	ng system lanning system		iest type of bus	iness in	nformation system?
	ANS: A	PTS:	1	REF:	p. 16	MSC:	Remember
17.	What is the term for that support problem a. a TPS b. an MIS c. a DSS d. a virtual reality s	-specifi		_	ople, procedure	s, softw	rare, databases, and devices
	ANS: C	PTS:	1	REF:	p. 17	MSC:	Remember

18.	What involves compa. virtual reality b. artificial intellig c. natural language d. learning system	gence e processing	ng and acting on verbal or	written commands?
	ANS: C	PTS: 1	REF: p. 17	MSC: Remember
19.		cluding the financi essing arce planning		one that would manage all aspects of tems, as coordinated systems. What
	ANS: B	PTS: 1	REF: p. 17	MSC: Higher Order
20.	What branch of artifa. vision systems b. neural networks c. robotic systems d. natural language	3	allows computers to recog	nize and act on patterns or trends?
	ANS: B	PTS: 1	REF: p. 18	MSC: Remember
21.	Which of the follow a. human resource b. information tech c. marketing and s d. infrastructure se	es hnology sales	art of the value chain of an	n organization?
	ANS: C	PTS: 1	REF: p. 19	MSC: Remember
22.		termine the deman onship managemen gement	ds of the clients. Which o	volved in ensuring that the ne of the following terms refers to this
	ANS: D	PTS: 1	REF: p. 19	MSC: Higher Order

23.	<ul><li>What do customer r</li><li>a. loyalty program</li><li>b. finished product</li><li>c. product design</li><li>d. service life cycle</li></ul>	ns t invento		t progra	ams help compa	anies manage?
	ANS: A	PTS:	1	REF:	p. 20	MSC: Remember
24.	handled in the organ	nization. g process a is doing earning	She is recommes to align then	ending	new rules of pr	ne of the ways procurement is rocurement as well as enhancing ne industry. What is the term used to
	ANS: C	PTS:	1	REF:	p. 27	MSC: Higher Order
25.	depend on?  a. cost of the syste  b. quality of the sy  c. whether it was  d. the hardware the	em ystem outsource at comes	ed or not with it	·		mation the system generates often
	ANS: B	PTS:	1	REF:	p. 28	MSC: Remember
26.	Which of the follow a. technology devel b. technology acce c. technology diff d. technology ado	elopment eptance usion		v widel	y technology is	spread throughout an organization?
	ANS: C	PTS:	1	REF:	p. 29	MSC: Remember
27.	What is best describ a. technology dep b. technology dev c. technology ado d. technology infu	loyment elopment ption		ch techr	nology permeat	es an area or department?
	ANS: D	PTS:	1	REF:	p. 29	MSC: Remember
28.	User training is a ket appropriate training a. Web administrate b. support c. database admin d. systems develop	is availa tion istration		om any	information sy	stem. What department ensures that
	ANS: B	PTS:	1	REF:	p. 30	MSC: Remember

29.	<ul><li>what activity involve</li><li>a. outsourcing</li><li>b. off shoring</li><li>c. on-demand comp</li><li>d. downsizing</li></ul>	es reducing the numb	er of em	ployees to cut o	costs?	
	ANS: D	PTS: 1	REF:	p. 31	MSC:	Remember
30.	Company XA is look necessary infrastruct a. outsourcing b. contracting c. on-demand compd. customized technology.	ure needs from exteri				
	ANS: D	PTS: 1	REF:	p. 31	MSC:	Higher Order
31.	<ul><li>a. the threat of mer</li><li>b. the threat of glob</li><li>c. the threat of sub;</li></ul>	ging of competitors	ervices	fied in Michael	Porter'	s competitive forces model?
	ANS: C	PTS: 1	REF:	p. 33	MSC:	Remember
32.	<ul><li>b. There are high d</li><li>c. They have high</li></ul>	ixed costs for entering egrees of product diff	g or leavi ferentiati	ing the industry on.	7.	itive industries?
	ANS: D	PTS: 1	REF:	p. 33	MSC:	Higher Order
33.		ow ch bargaining power nuch bargaining powe		stry?		
	ANS: A	PTS: 1	REF:	p. 33	MSC:	Remember
34.	costs, has Walmart a a. differentiation st	and other retailers followategy oducts and services str	owed for		ecoming	g more efficient and reducing
	ANS: D	PTS: 1	REF:	p. 34	MSC:	Remember

35.	a. differentiation s	strategy oducts and services st	egy involves frequent is	nnovation?
	ANS: B	PTS: 1	REF: p. 34-36	MSC: Remember
36.	gain competitive ad a. differentiation s b. niche strategy c. cost leadership	vantage? trategy		SUVs, uses what type of strategy to
	ANS: B	PTS: 1	REF: p. 35	MSC: Remember
37.	<ul><li>a. reducing costs a</li><li>b. gaining competit</li><li>c. reducing costs a</li></ul>	and improving productive advantage and us and gaining competitive	sing the most current te	chnology
	ANS: A	PTS: 1	REF: p. 36	MSC: Remember
38.	a. return on invest b. balance sheet c. income stateme d. earnings per sha	ss? ment nt		luate the contribution of information  MSC: Higher Order
20			•	· ·
39.	what measure is use performance?  a. net present valu b. return on invest c. earnings growth d. market share	e ment	ssess the yield of its pro	ofits and benefits based on past
	ANS: B	PTS: 1	REF: p. 38	MSC: Higher Order
40.	Which of the follow a. hiring costs b. technical support c. maintenance co d. hardware and so	rt costs sts	l in the total cost of ow	nership?
	ANS: B	PTS: 1	REF: p. 38	MSC: Remember

41.	human resources di	vision. Ture can b ment e	he company ha	ıs a goo	d record of all	implemented five years ago for its the expenses associated with that of the information system?
	ANS: D	PTS:	1	REF:	p. 38	MSC: Higher Order
42.		es to crea se a solu- gation s	ite a new syster	n. Jenn	ifer has comple	as given the responsibility to engage eted several tasks already and she is he in?
	ANS: C	PTS:	1	REF:	p. 38	MSC: Higher Order
43.	The Green Mile propleased with the rest a. systems design b. systems construct. systems implemed. systems mainter.  ANS: C	cult. Which action mentation	ch is the next st	tage for	the project?	ration test and the business lead was  MSC: Higher Order
44.	What is it called who development project a. global import b. off shoring c. systems investig d. outsourcing  ANS: D	t?		s an out		to perform some or all of a systems  MSC: Remember
45.	Which phase of sys or the opportunity to a. systems analysi b. systems investig c. systems design d. systems implem	o be addı s gation	ressed?	to gain	a clear unders	tanding of the problem to be solved
	ANS: B	PTS:	1	REF:	p. 39	MSC: Remember

46.	a. the b. the c. the	e organization's e organization's e organization's	s financ s cultur s ability	ees e		s often a functio	on of which of the following?
	ANS:	В	PTS:	1	REF:	p. 40	MSC: Remember
TRU	E/FAI	LSE					
1.	Comp	uters are requir	ed to o	rganize or proce	ess data	l <b>.</b>	
	ANS:	F	PTS:	1	REF:	p. 4	
2.	Inform	nation and data	are ess	entially the sam	ne.		
	ANS:	F	PTS:	1	REF:	p. 6	
3.	_	a computer to the le of information			ıd ordei	more inventory	y before a shortage can occur is an
	ANS:	T	PTS:	1	REF:	p. 11	
4.						oases, telecomm ss data into info	unications, people, and procedures rmation.
	ANS:	T	PTS:	1	REF:	p. 12	
5.		chnology infrast ater-based infor			red IS	resources that fo	orm the foundation of each
	ANS:	T	PTS:	1	REF:	p. 12	
6.	Today	's more advanc	ed prod	cessor chips hav	ve the p	ower of 1990s-	era supercomputers.
	ANS:	T	PTS:	1	REF:	p. 13	
7.		cations software ions, such as st			ista and	Windows Seve	en, control basic computer
	ANS:	F	PTS:	1	REF:	p. 13	
8.	Private	e cloud comput	ing app	olications are av	ailable	to everyone.	
	ANS:	F	PTS:	1	REF:	p. 13	
9.						access to these of called Web ser	locuments are controlled and rvers.
	ANS:	T	PTS:	1	REF:	p. 14	

10.	Transaction processi	ng syste	ems were devel	oped in	the 1950s.
	ANS: T	PTS:	1	REF:	p. 16
11.	C2C stands for comp	outer-to-	computer e-co	mmerce	2.
	ANS: F	PTS:	1	REF:	p. 16
12.	DSS systems were fi	rst deve	loped over 30	years ag	go.
	ANS: T	PTS:	1	REF:	p. 16
13.	Mobile commerce is	the use	of mobile, wire	eless de	evices to place orders and conduct business.
	ANS: T	PTS:	1	REF:	p. 16
14.	While technologicall work activities.	ly advan	ced, e-commer	ce unfo	ortunately offers few advantages for streamlining
	ANS: F	PTS:	1	REF:	p. 16
15.	Electronic business g Internet to perform a				e-procurement by using information systems and the unctions.
	ANS: T	PTS:	1	REF:	p. 16
16.	Computers have been	n used to	o perform com	mon bu	siness applications since the 1950s.
	ANS: T	PTS:	1	REF:	p. 16
17.	A virtual reality syste	em is an	example of on	e of the	e most common types of information systems.
	ANS: F	PTS:	1	REF:	p. 17
18.	Companies soon lear better decisions.	rned that	t they could use	e the da	ta stored in transaction processing systems to make
	ANS: T	PTS:	1	REF:	p. 17
19.					on of people, procedures, software, databases, and gers and decision makers.
	ANS: F	PTS:	1	REF:	p. 17
20.	A MIS typically prov system.	vides sta	andard reports §	generate	ed with data and information from a TPS or ERP
	ANS: T	PTS:	1	REF:	p. 17
21.	MIS reports may be	generate	ed daily, weekl	y, mont	hly, or yearly.
	ANS: T	PTS:	1	REF:	p. 17

22.	A DSS can include a collection of models to support a decision maker, a collection of facts, and procedures that help decision makers interact with the DSS.					
	ANS: T	PTS: 1	REF: p. 17			
23.	DSS became more w	ridely used in the 1980	s as a result of dramatic improvements in technology.			
	ANS: T	PTS: 1	REF: p. 17			
24.	With an AI system, t	he computer takes on t	he characteristics of human intelligence.			
	ANS: T	PTS: 1	REF: p. 17			
25.		ctile and force feedbactual reality experience	ek devices, voice recognition, and other technologies are			
	ANS: T	PTS: 1	REF: p. 17			
26.	_	•	ity to make suggestions and function like an expert in a mance of a novice user.			
	ANS: F	PTS: 1	REF: p. 18			
27.	The unique value of experts and specialis		they allow organizations to capture and use the wisdom of			
	ANS: F	PTS: 1	REF: p. 18			
28.	Depending on the cu uniqueness of the pro	_	ean lower prices, better service, higher quality, or			
	ANS: T	PTS: 1	REF: p. 19			
29.	Customer relationshi	p management softwa	re often uses a variety of information sources.			
	ANS: T	PTS: 1	REF: p. 20			
30.			ted group, providing user assistance in hardware and ration, user training and assistance, and software			
	ANS: F	PTS: 1	REF: p. 23			
31.	Most IS careers invo	lve working in a project	et team.			
	ANS: T	PTS: 1	REF: p. 24			
32.	Organizational cultur organization.	re consists of the majo	r understandings and assumptions of a business or other			
	ANS: T	PTS: 1	REF: p. 25			

	ANS: T	PTS:	1	REF:	p. 26
34.	Sustaining change all an organization.	most alv	ways harms an	organiz	cation while disruptive change almost always helps
	ANS: F	PTS:	1	REF:	p. 26
35.	Disruptive change of new products and ser				companies and offers consumers the potential of perior performance.
	ANS: T	PTS:	1	REF:	p. 26
36.	The degree to which factor that can lead to				use of an information system is not an important
	ANS: F	PTS:	1	REF:	p. 26
37.					nology acceptance are not particularly significant in ck to learn and accept new technology.
	ANS: F	PTS:	1	REF:	p. 28
38.	An organization can diffusion overall.	have a l	nigh level of in	fusion i	n one part of its operations and a low level of
	ANS: T	PTS:	1	REF:	p. 29
39.	If an organization has organization, information	_			n and infusion, with computers throughout the o their full potential.
	ANS: F	PTS:	1	REF:	p. 29
40.	Reengineering and co	ontinuo	us improvemen	t mean	the same thing.
	ANS: F	PTS:	1	REF:	p. 29
41.	One organization can	spend	less than anoth	er on in	nformation systems, but still get better value.
	ANS: T	PTS:	1	REF:	p. 31
42.					these forces combine in any instance, the less likely I the less obvious the results of such an advantage
	ANS: F	PTS:	1	REF:	p. 33
43.	When the threat of no to dissuade new entra			-	e desire to seek and maintain competitive advantage
	ANS: T	PTS:	1	REF:	p. 33

33. In some cases, top-level managers can form organization culture rapidly.

44.	Many companies in the computer industry introduce new products and services frequently in an attempt to gain a cost leadership position.				
	ANS: F	PTS:	1	REF:	p. 34
45.	•		~ ~		agement to performance-based management of their rategic advantage and costs.
	ANS: T	PTS:	1	REF:	p. 36
46.	By adding a signific will exceed budgets				roducts and services, organizations ensure that they
	ANS: F	PTS:	1	REF:	p. 38
47.	Improved productivi satisfaction.	ity can r	esult in faster c	ustome	r response, lower costs, and increased customer
	ANS: T	PTS:	1	REF:	p. 38
48.	ROI calculations can the time value of mo		nplex, including	g invest	ment returns over multiple years and the impact of
	ANS: T	PTS:	1	REF:	p. 38
49.	Information systems market.	can hel	p bring new pr	oducts	and services in less time, thus reducing time to
	ANS: T	PTS:	1	REF:	p. 38
50.	Because of the diffic and maximize the va			the cos	sts, total cost of ownership is seldom used to plan for
	ANS: F	PTS:	1	REF:	p. 38
51.	Systems analysis de	fines the	e problems and	opporti	unities associated with the existing system.
	ANS: T	PTS:	1	REF:	p. 39
52.	-		_		ly on the development of new information systems and review of information systems.
	ANS: F	PTS:	1	REF:	p. 39
53.	The primary goal of	a for-pr	ofit organizatio	on is to	maximize shareholder value.
	ANS: T	PTS:	1	REF:	p. 41
54.	An organization is a	system,	, which means t	that it h	as inputs, processing, outputs, and feedback.
	ANS: T	PTS:	1	REF:	p. 41

	and India.	
	ANS: T PTS: 1 REF: p. 46	
COM	MPLETION	
1.	A(n) is a formal collection of people and other resources established to accomplish a set of goals.	
	ANS: organization	
	PTS: 1 REF: p. 3	
2.	A(n) administrator focuses on the planning, policies, and procedures regarding the use of corporate data and information.	
	ANS: database	
	PTS: 1 REF: p. 4	
3.	data is a form of data that is represented by numbers, letters, and other characters.	
	ANS: Alphanumeric	
	PTS: 1 REF: p. 6	
4.	is the awareness and understanding of a set of information and the ways the information can be made useful to support a specific task or reach a decision.	e
	ANS: Knowledge	
	PTS: 1 REF: p. 6	
5.	The collection of rules, procedures, and relationships that must be followed by an expert system to achieve the proper outcome is contained in the expert system's	
	ANS: knowledge base	
	PTS: 1 REF: p. 7	
6.	workers are people who create, use, and disseminate knowledge.	
	ANS: Knowledge	
	PTS: 1 REF: p. 7	

55. Opportunities in information systems are available to people from foreign countries, including Russia

7.	7. Resources such as materials, people, and money serve as to the organization from the environment.			
	ANS: inputs			
	PTS: 1 REF: p. 9			
8.	In information systems, means converting or transfo outputs.	rming data into useful		
	ANS: processing			
	PTS: 1 REF: p. 11			
9.	In information systems, the activity of gathering and capturing raw data is call	ed		
	ANS: input			
	PTS: 1 REF: p. 11			
10.	Predicting future events to avoid problems is called			
	ANS: forecasting			
	PTS: 1 REF: p. 12			
11.	refers to hardware, software, databases, and te	lecommunications.		
	ANS: Information technology			
	PTS: 1 REF: p. 12			
12.	CBIS stands for			
	ANS: computer-based information system			
	PTS: 1 REF: p. 12			
13.	A(n) is an organized collection of facts and informat of two or more related files.	ion, typically consisting		
	ANS: database			
	PTS: 1 REF: p. 13			
14.	The is the world's largest computer network, consist interconnected networks, all freely exchanging information.	ing of thousands of		
	ANS: Internet			
	PTS: 1 REF: p. 13			

15.			all	ows people to get the information they need from the Internet instead of
	from c	lesktop or corp	orate co	omputers.
	ANS:	Cloud comput	ting	
	PTS:	1	REF:	p. 13
16.			inc	clude the strategies, policies, methods, and rules for using the CBIS.
	ANS:	Procedures		
	PTS:	1	REF:	p. 13
17.				be installed from CDs, many of today's software packages can be
	ANS:	Internet		
	PTS:	1	REF:	p. 14
18.		cs, video, and		_ is a network of links on the Internet to documents containing text,
	ANS:	World Wide V	Web, or	Web
	PTS:	1	REF:	p. 14
19.	create			te the Internet is also being applied within companies and organizations to, which allow people in an organization to exchange information and
	ANS:	intranets		
	PTS:	1	REF:	p. 14
20.	compa	nnies.	inv	volves any business transactions executed electronically between
	ANS:	E-commerce		
	PTS:	1	REF:	p. 16
21.				people, procedures, software, databases, and devices used to record tons is called a(n)
	ANS:	transaction pr	ocessin	g system
	PTS:	1	REF:	p. 16

22.	e. A(n) is a set of integrated programs that manages the vital business operations for an entire multi-site, global organization.			
	ANS: enterprise resource planning system			
	PTS: 1 REF: p. 16			
23.	Customers, suppliers, managers, shareholders, and employees are all examples of of the organization.			
	ANS: stakeholders			
	PTS: 1 REF: p. 16			
24.	The focus of a DSS is on making effective and helping a manager do the right thing.			
	ANS: decisions			
	PTS: 1 REF: p. 17			
25.	A system to create, store, share, and use the organization's knowledge and experience is called a(n)			
	ANS: knowledge management system			
	PTS: 1 REF: p. 17			
26.	The IS organization has three primary responsibilities including operations, systems development, and			
	ANS: support			
	PTS: 1 REF: p. 18			
27.	is an area of artificial intelligence in which machines take over complex, dangerous, routine, or boring tasks.			
	ANS: Robotics			
	PTS: 1 REF: p. 18			
28.	Combining a value chain with inventory means companies can deliver materials or parts when they are needed.			
	ANS: just-in-time			
	PTS: 1 REF: p. 19			

29.	Two key elements of managing the value chain include managing the supply chain and			
	ANS: customer relationships			
30.	PTS: 1 REF: p. 19, a German software company, is one of the leading suppliers of ERP			
	software.			
	ANS: SAP			
	PTS: 1 REF: p. 21			
31.	is a set of major understandings and assumptions shared by a group, such as			
	within an ethic group or country.			
	ANS: Culture			
	PTS: 1 REF: p. 25			
32.	Organizational deals with how organizations plan for, implement, and handle change.			
	ANS: change			
	PTS: 1 REF: p. 26			
33.	The model specifies the factors that can lead to better understanding of the information system, along with higher acceptance and usage of the system in an organization.			
	ANS: technology acceptance			
	PTS: 1 REF: p. 28			
34.	The design department of an architectural firm that uses computers in all aspects of its design work would be said to have a high level of			
	ANS: infusion			
	PTS: 1 REF: p. 29			
35.	How appropriate and useful the information system is to the tasks or activities being performed is called the and can lead to greater performance and profitability.			
	ANS: Task-Technology Fit			
	PTS: 1 REF: p. 30			
36.	A(n) is a significant and (ideally) long-term benefit to a company over its competition.			
	ANS: competitive advantage			
	PTS: 1 REF: p. 31			

37.	Porter can lea	'sad to attainmen	t of cor	model is a widely accepted model that identifies the key factors that mpetitive advantage.
	ANS:	five-forces		
	PTS:	1	REF:	p. 33
38.				of suppliers is strong, companies need to increase their competitive retain their customers.
	ANS:	advantage		
	PTS:	1	REF:	p. 33
39.		competitive, aress strategies ar		ization must also its IS strategy with general etives.
	ANS:	align		
	PTS:	1	REF:	p. 33
40.				_ strategy for competitive advantage involves producing a variety of nore choices, or delivering higher quality products and services.
	ANS:	differentiation	1	
	PTS:	1	REF:	p. 34
41.	A(n) _ more c	companies that	involve	, also called a strategic partnership, is an agreement between two or es the joint production and distribution of goods and services.
	ANS:	strategic allian	nce	
	PTS:	1	REF:	p. 35
42.			=(	output / input) x 100%
	ANS:	Productivity		
	PTS:	1	REF:	p. 37
43.				is the sum of all costs over the life of the information system.
	ANS:	Total cost of o	ownersh	nip
	PTS:	1	REF:	p. 38

44.	During the	phase of the systems development process, the project team			
	determines how the new system should be developed to meet the business needs defined during				
	systems analysis.				
	ANS: systems desig	n			
	PTS: 1	REF: p. 39			

## **ESSAY**

1. Briefly distinguish between data, information, and knowledge.

ANS:

Data consists of raw facts, such as employee numbers or total hours worked in a week. Information is a collection of facts organized and processed so that they have additional value beyond the value of individual facts. Turning data into information is a process, a set of logically-related tasks performed to achieve a defined outcome. The process of defining relationships among data to create useful information requires knowledge. Knowledge is the awareness and understanding of a set of information and the ways that information can be made useful to support a specific task or reach a decision.

PTS: 1 REF: p. 6-7

2. Define the term information system and briefly identify its fundamental components.

ANS:

An information system is a set of interrelated elements or components that collect, manipulate, store, and disseminate data and provide for a corrective reaction to meet an objective. The fundamental components include input, processing, output, and feedback. Input is the activity of gathering and capturing raw data. Processing involves converting data into useful output. It can be done manually or by using a computer. Output involves producing useful information, often in the form of documents and reports. Feedback is information from the system that is used to make changes to input or processing activities.

PTS: 1 REF: p. 10-11

3. What is meant by an organization's technology infrastructure and what are its components?

ANS:

An organization's technology infrastructure is a set of shared IS resources that form the foundation of each of its computer-based information systems. It includes all the hardware, software, databases, telecommunications, people, and procedures that are configured to collect, manipulate, store, and process data into information.

PTS: 1 REF: p. 12

4. Distinguish between the Internet and the Web.

ANS:

The Internet is the world's largest network consisting of thousands of interconnected networks, all freely exchanging information. People use the Internet to research information, buy and sell products and services, make travel arrangements, conduct banking, download music and videos, read books, and listen to radio programs, among other activities. The Web is one of many services available over the Internet. It is a network of links on the Internet to documents containing text, graphics, video, and sound. Information about the documents and access to them are controlled and provided by tens of thousands of special computers called Web servers.

PTS: 1 REF: p. 14

5. Distinguish between an MIS and DSS.

ANS:

An MIS provides routine information to managers and decision makers. The first MIS systems were developed in the 1960s and provide standard reports generated with data and information from a TPS or ERP system. DSS systems were first developed in the 1980s and used to support problem-specific decision making. The DSS employs a collection of models to support the decision maker, a collection of facts, and systems and procedures that help users interact with it.

PTS: 1 REF: p. 16

6. Define the term value chain and briefly discuss the purpose of the supply chain component.

ANS:

The value chain is a series of activities that includes inbound logistics, warehouse and storage, production and manufacturing, finished product storage, outbound logistics, marketing and sales, and customer service. An analysis of each activity of the value chain of an organization reveals how to increase the value perceived by the customer. The supply chain component determines what supplies are required for the value chain, what quantities are needed to meet customer demand, how the supplies should be manufactured into finished goods and services, and how the shipment of supplies and products to customers should be scheduled, maintained, and controlled.

PTS: 1 REF: p. 19

7. Explain the difference between sustaining and disruptive change.

ANS:

Sustaining change can help an organization improve its current operations, such as improving the supply of raw materials, the production process, and the products and services it offers. Disruptive change can completely transform an organization or industry or create new ones. Disruptive technologies may not originally have good performance, low cost, or even strong customer demand. Over time, however, they often replace existing technologies.

PTS: 1 REF: p. 26

8. Briefly discuss the technology acceptance model and its importance.

ANS:

The technology acceptance model specifies the factors that can lead to better attitudes about an information system, along with higher acceptance and usage of the system. These factors include the perceived usefulness of the technology, the ease of its use, the quality of the information system, and the degree to which the organization supports its use.

PTS: 1 REF: p. 28-29

9. What is competitive advantage? Identify five forces that cause firms to seek competitive advantage.

ANS:

Competitive advantage is a significant and long-term benefit to a company over its competition and can result in higher-quality products, better customer service, and lower costs. Michael Porter identified five forces. The more these forces combine in any instance, the more likely firms will seek competitive advantage and the more dramatic the results of such an advantage will be. These five forces include 1) rivalry among existing competitors, 2) the threat of new entrants, 3) the threat of substitute products and services, 4) the bargaining power of suppliers, and 5) the bargaining power of suppliers.

PTS: 1 REF: p. 31-33

10. What are some of the resources and strategies that you can use to have a career in information systems?

ANS:

# http://www.workopolis.com/

This is a very powerful resource where one can find job postings as well as posting one's resume.

#### http://www.monster.ca/

This is also a popular site where one can search for jobs by company, location, and industry categories.

## http://www.allstarjobs.ca/

This site provides another alternative to search for jobs across the country by province and territory.

#### http://www.it-careers.ca/

This site focuses on IT Jobs.

#### **STRATEGIES**

There is no magic formula to finding a career in IT. However, in Canada, we do have a lot of resources at the federal, provincial, and municipal levels. There are also government programs that are targeted towards the unemployed workforce. There are also placement opportunities where one can learn, as well as get Canadian experience. For those of you who are new immigrants and have previous training, you can be hired as Internationally Trained Individuals. This is a program that places those individuals for a period of six months in various public and private companies.

#### www.careeredge.ca

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PTS: 1 REF: p. 70-71

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