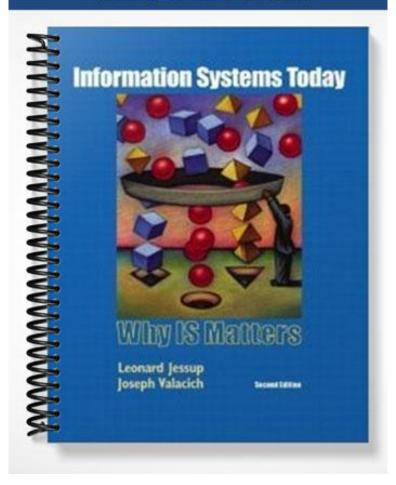
TEST BANK



MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 1) Technology is said to when we take a manual process (done by hand) and use computers to perform the task. A) informate B) automate C) strategize D) compete 2) _____ is using technology as a way to help complete a task 2) _____ within an organization faster and, possibly, more cheaply. A) Automating B) Strategizing C) Processing D) Learning 3) Technology is said to ______ when it provides information 3) _____ about its operation and the underlying work process that it supports. A) conglomerate B) innovate C) dominate D) informate 4) A _____ organization is defined as an organization that is 4) _____ "skilled at creating, acquiring, and transferring knowledge, and at modifying its behaviour to reflect new knowledge and insights." B) profitable A) technical C) strategizing D) learning 5) _____ explained that a technology informates when it 5) _____ provides information about its operation and the underlying work process that it supports. A) Shoshana Zuboff B) Michael Porter C) Gordon Moore D) Peter Drucker 6) ______ is/are a formal group effort for improving the quality 6) of organizational performance and operations. A) Information Management B) Group Support Systems C) Total Quality Management D) Corporate Operating Systems 7) In a corporate setting, "______" involves forming a vision of 7) _____ where the organization needs to head, setting objectives and performance targets, and crafting a strategy to achieve the desired A) competitive advantage B) total quality management D) strategic planning C) best-cost provider 8) Low cost leadership strategy, differentiation strategy, and best-cost 8) _____ provider strategy are examples of strategic planning for: A) informating. B) total quality management. C) competitive advantage. D) organizational learning. 9) ____ 9) A company like Zellers, which offers the best prices for goods and/or services, are using a(n): A) organizational strategy.

C) low-cost leadership strategy.		
D) best-cost provider strategy.		
10) Companies like Porsche, Holt Ren		10)
products or services than their con	npetitors, are using a(n):	
A) best-cost provider strategy.		
B) differentiation strategy.		
C) low-cost leadership strategy.		
D) organizational strategy.		
11) Companies like Wal-Mart, which o	offer products or services at	11)
competitive prices, are using a(n):		
A) differentiation strategy.		
B) organizational strategy.		
C) best-cost provider strategy.		
D) low-cost leadership strategy.		
12) Which of the following is NOT a so	ource of competitive advantage?	12)
A) Achieving higher costs than i	-	/
B) Superior customer service		
C) Having a well-known brand	name	
D) Achieving lower costs than ri		
13) Avis Rent A Car uses technology t	o sustain a competitive advantage in	13)
	nology does Avis use to achieve this?	10)
	Systems in their rental cars to track	
customer locations.	-,	
B) Avis customer services reps i	use hand-held computers and printers	
to complete the rental transac		
-	Internet get discount rental prices.	
	y to transmit mileage and fuel levels	
from returned cars.		
14) In an organizational context, what	is a value chain?	14)
A) Process of adding value through		14)
B) Administration of a business		
C) Using technology to enhance		
D) Gaining a strategic advantage		
15) The five phases of value chain ana	lysis include all of the following	15)
EXCEPT:	rysis include an of the following	13)
A) outbound logistics.	B) computer technology.	
C) sales and marketing.	D) service.	
c) sures that marketing.	Dy service.	
16) A system that uses the Internet for	business-to-business interaction is	16)
called a(n):		
A) privileged network.	B) extranet.	
C) intranet.	D) network topology.	
17) Which of the following does not le	nd itself to improving the value	17)
chain?		

B) differentiation strategy.

B) Selling more productsC) Improving procurement processes		
D) Increasing operating costs	•	
18) An example of a technology innovation valued at \$850,000. To diagnose probler		18)
A) the owner presses a self-diagnosis		
B) the owner plugs in a modem whice engineers.	_	
C) the owner drives to a high-tech au	to repair facility.	
D) the owner activates the cars intern	- · ·	
the problem and automatically fix	-	
19) What is a computer-aided design syster	m?	19)
A) Computer software that dictates the your company.		
B) Software that generates innovated	designs and artistic patterns.	
C) The use of computers to design star products.	-	
D) Using computers to do architectur	re.	
20) "Making the business case" for an inform	mation system means:	20)
A) choosing the best organizational s	-	/
B) choosing the best information syst		
C) conducting business process reens		
D) identifying the value provided by		
organization or its constituents.	,	
21) The reason IS expenditures have risen b		21)
the same pace is hard to explain. One of have to do with:	r more of the contributing factors	
A) new technology is harder to use a	nd more complicated.	
B) management expectations of prod	uctivity gains are unrealistic.	
C) government regulation, complex t		
products, and employee behaviou	_	
games, web-surfing, and e-mailing	g friends.	
D) spending is out of control in most	companies.	
22) From a productivity standpoint, system	efficiency is an important	22)
concept. A problem associated with sys	tem efficiency is:	
A) it is often confused with customer		
B) that management doesn't understa efficiency.	and or doesn't care about system	
C) the difficulty in measuring benefit	s associated with the system.	
D) that system efficiency is hampered	d by computer speed.	
23) When employees in a business unit (e.g	_	23)
Resources) assist in the creation of an in	-	
A) end-user development.C) outsourcing.	B) business unit production.D) a vendor-bender.	

A) Minimizing marketing expenditures

24) Information systems designed to improve decision making are called:		
A) decision support systems.	B) system efficiency software.	
C) strategic systems.	D) groupware.	
25) Information systems that help the organ	_	25)
or maintain market share, better serve cu		
A) decision support systems.	B) system efficiency software.	
C) strategic systems.	D) groupware.	
26) The intent of is often to		26)
new market, gain or maintain market sh	are, better serve customers, etc.	
A) transaction processing systems		
B) group support systems		
C) strategic systems		
D) expert systems		
27) Problems for measuring productivity from	om information systems include	27)
the following EXCEPT:		
A) effectiveness improvements are dif		
B) salary costs associated with the dev		
C) IS may benefit a particular firm, bu	•	
 D) a time lag may occur between syste when benefits are realized. 	em implementation and the time	
when benefits are realized.		
28) Making the is the proce	ess of building and presenting	28)
the set of arguments that show that an ir	nformation system is adding	
value to the organization.		
A) organizational case	B) law case	
C) organizational chart	D) business case	
29) An example of IS mismanagement woul	d EXCLUDE:	29)
A) relying on technology to fix a prob	lem that is really fundamental	
to the business process.		
B) lack of providing a detailed cost-be	enefit analysis.	
C) implementing a system poorly.		
D) building a bad system.		
30) When making a successful business case	e, "Arguments based on beliefs	30)
about organizational strategy, competiti	e	,
customer perceptions, market share, and	l so on" are known as:	
A) arguments based on fear.		
B) arguments based on fact.		
C) arguments based on cost-benefits.		
D) arguments based on faith.		
31) What type of argument is this: "I know I	don't have good data to back	31)
this up, but I'm convinced that having the		,
to serve our customers better"?	•	
A) An argument based on faith.		
B) An argument based on serendipity		
C) An argument based on fact.		
D) An argument based on fear.		

32) When making a successful business case, "Arguments based on the notion that if the system is not implemented, the firm will lose out to the competition or, worse, go out of business" are known as: A) arguments based on faith. B) arguments based on fear. C) arguments based on dominance. D) arguments based on fact.	32)
33) A mature, stable industry may need IS to the current pace of operations, while a company in a newer, more volatile industry (i.e., a cellular phone company) may find it more important to technology. A) accelerate, maintain B) maintain, be on the leading edge of C) advance, reduce D) reduce, outsource	33)
34) What type of argument is this: "This analysis shows that implementing the inventory control system will reduce errors by 50% and pay for itself within 18 months."? A) An argument based on fact B) An argument based on fear C) An argument based on faith D) An argument based on fiction.	34)
 35) What type of argument is this: "If we don't implement this ERP system we'll get killed by our competitors because they're using these systems."? A) An argument based on pure fiction B) An argument based on fact C) An argument based on faith D) An argument based on fear 	35)
36) Probably the most important factor that can affect IS investment is the nature of in the industry. A) customer service B) competition or rivalry C) marketing D) technology	36)
 37) All of the following are competitive forces from Porter's Competitive Forces model EXCEPT: A) online sellers. B) potential new entrants into the market. C) substitute products. D) bargaining power of suppliers. 	37)
38) The most common way to make an argument based on fact, where convincing quantitative analysis proves the benefits outweigh the costs, is:A) to look at industry trends.B) conduct a cost-benefit analysis.C) to demonstrate what competitors are doing.	38)

	D) hire independent consultants.		
	Costs that are one-time costs that are no system is implemented are called:	-	39)
	A) tangible costs.	B) nonrecurring costs.	
	C) recurring costs.	D) intangible costs.	
40)	Employee salaries and benefits is an ex	ample of:	40)
	A) recurring costs.	B) infrastructure costs.	
	C) intangible costs.	D) high-risk costs.	
41)	costs are ongoing cost	ts that occur throughout the life	41)
	cycle of systems development, impleme	entation, and maintenance.	
	A) High risk	B) Recurring	
	C) Infrastructure	D) Intangible	
42)	The largest recurring costs are usually:		42)
	A) software costs.	B) computer equipment costs.	
	C) personnel costs.	D) marketing costs.	
43)	costs are those that ar	re easily identified and that are	43)
	easy to recognize and track.	,	- /
	A) Nonrecurring	B) Tangible	
	C) Recurring	D) Intangible	
44)	costs are those that ar	re hard to quantify that is they	44)
11)	are difficult to evaluate and track.	e rara to quartify, that is, they	11)
	A) Tangible	B) Intangible	
	C) Nonrecurring	D) Recurring	
45)	Benefits such as reduction in order entr	v errors increase in the customer	45)
	reach of a new Web-based system, etc.	-	10)
	A) recurring costs.	B) intangible benefits.	
	C) nonrecurring costs.	D) tangible benefits.	
46)	Benefits such as improved perception of	of the firm and faster turnaround	46)
10)	on order fulfillment are examples of:	72 WIE 11111 WIEW 1W3001 VW11W10 WIEW	10)
	A) intangible benefits.	B) tangible benefits.	
	C) recurring costs.	D) nonrecurring costs.	
47)	The IS manager:		47)
)	A) is a nonrecurring cost.		/
	B) is an intangible cost.		
	C) has overall responsibility for man	aging IS development.	
	implementation, and maintenance	-	
	D) is not in a position to make recom		
48)	When presenting the business case for	a new information system, the	48)
10)	case would not be made to:	and in middle and	10)
	A) shareholders.	B) the steering committee.	
	C) the IS manager.	D) company executives.	
	-,	,	

49) This group (vice presidents or h	49)		
stakeholders or interest groups			
A) Company executivesC) Stockholders	B) IS managersD) The steering committee		
50) The goal of is t		50)	
_	ndas, to share the responsibilities and		
	initiatives with broader business aims.		
A) stockholders	B) If many areas		
C) company executives	D) IS managers		
	business case for a new system is to:	51)	
A) take your case to corporate			
B) take the CEO out to lunch			
C) convert benefits to moneta			
D) gain influence or control of	f the executive committee.		
52) When direct quantification of fir	nancial benefits is difficult an alternative	52)	
is the use of, w	which are measures of changes in terms		
of perceived value.			
A) proxy variables	B) steering committees		
C) outside consultants	D) work profile matrices		
53) If you use measures of perceived	d value in making a business case, you	53)	
	ces in terms of percentages, increases, or	,	
decreases (whatever best conveys the benefits). These changes are			
demonstrated by using:	D)		
A) work profile matrices.	B) steering committees.		
C) outside consultants.	D) proxy variables.		
	past was to think about information	54)	
systems as a(n)	. Managers must view IS as a(n)		
A) expense, overhead			
B) necessary evil, asset			
C) competitive advantage, lia	bility		
D) resource, expense			
55) A company is said to have	when it has gained an edge	55)	
over its rivals.		,	
A) monopoly	B) computer advantage		
C) profitability	D) competitive advantage		
56) Sir John Maddox was quoted in	1999 as saying, "The most important	56)	
- ·	are likely to be ones of which we cannot		
now"	·		
A) even conceive	B) compute		
C) invent	D) afford		
57) The term is gen	nerally used to mean the use of the	nea inform	
	s that support interactive purchasing.	rly ation	
The term is use	ed more broadly to mean the use of	any technol	

ogies to			
support			
busines		D) 1 .	
	A) e-commerce, e-technology	B) e-business, e-commerce	
	C) e-technology, e-business	D) e-commerce, e-business	
5	8) The four consecutive stages of Choosing	, Matching, Executing, and	58)
	Assessing make up the:		
	A) System Development Life Cycle.		
	B) Executive Information System.		
	C) Functional Area Assessment Syste	m.	
	D) E-Business Innovation Cycle.		
5	9) New technologies that are anticipated to	have an impact on businesses	59)
	are called:	D) ('	
	A) innovative growth.	B) firmware.	
	C) emerging technologies.	D) vaporware.	
6	0) To be successful in e-business it is impowith:	rtant to match new technologies	60)
	A) new employees.	B) new businesses.	
	C) economic opportunities.	D) new computers.	
	e) economic opportunities.	2) new comparers.	
6	1) The E-Business Innovation Cycle question	ons the conventional wisdom	61)
	that:		
	A) marketing dictates which type of to		
	B) databases can keep pace with rapid	d technological changes.	
	C) emerging technologies are useful.		
	D) economic opportunities exist.		
6	2) Competitive advantage gained by using	information systems is usually:	62)
	A) a slow process because technology		
	B) permanent, because innovation ter	nds to be ongoing.	
	C) long lasting because the E-Busines	s Innovation Cycle is cyclical.	
	D) short-lived because competitors ca	n copy emerging information	
	systems.		
6	3) The example of VHS video cassette reco	rders (VCRs) winning out the	63)
	marketplace over technologically superi		/
	A) technology is more important than		
	B) emerging technology always entai	9	
	C) the best products always win the b		
	D) VCRs follow the E-Business Innov	ation Cycle.	
6	4) The prediction that the number of transi	stors that could be somewhered	64)
O	onto a silicon chip (which correlates to r	-	01)
	doubles every 18 months is called:	meroemp processing speeds	
	A) competitive advantage.	B) technological innovation.	
	C) Moore's Law.	D) a coincidence.	
		•	
6	5) Before an organization can deploy new	systems well, its people,	65)
	structure, and processes must be:		

	B) young and ir	al than its rivals.	nge.		
66)	In 2005, Stantec's g	gross sales were \$60	00 million. In order	to reach their	66)
	goal of \$1 billion b	•		_	
	_	oyee numbers thro	ugh increasing tecl	nnology	
	·	tomation systems me older, tradition	al business method	le.	
	D) begin to sell		ar business metrioc	13	
67)	Automating the pr	rocess for loans u	nder \$250,000 was	able to reduce	67)
	the time required		-	manual form to	
		the fully automated		5)	
	A) 1 minute	B) 1 second	C) 1 week	D) 1 hour	
68)	A recent survey in stolen key informa			ndents had	68)
	A) 10	B) 50	C) 70	D) 17	
69)	If a system does no	ot 'learn', the increa	nsed volume of wo	rk performed	69)
	through automatic	on can lead to:		-	
	A) increased vol	lume of error.	B) decreased o	output.	
	C) manual proc	essing.	D) increased ir	nput.	
70)	Which car compar	ny below takes a Fo	cused Differentiat	ion Strategy?	70)
	A) Porsche		B) Chevrolet		
	C) Toyota		D) Volkswager	n	
71)	For an information it must be	•	-	etitive advantage,	71)
	A) economical;	efficient	B) valuable; ra	re	
	C) targeted; eco	nomical	D) efficient; eff	ective	
72)	While technology	might be copied by	competitors, it is	much more	72)
		e strategic			
	A) use		B) advantage		
	C) hardware		D) code		
73)	The Avis airport of total elapsed time				73)
	A) 90-110 secon		B) 1-5 minutes		
	C) 5-10 minutes		D) 5-20 second	S	
74)	When you 'benchr		with those of your	competitors, you	74)
	A) standardizin		B) ignoring		
	C) leveraging	<u> </u>	D) comparing		
75)	What process is of enterprise informa	-			75)

B) business process reengineering (BPR)	
C) business practice review (BPR)		
D) infrastructure renewal initiative	(IRI)	
76) In order to be effective, an organization	onal information system must:	76)
A) add value	B) be easy to use	
C) be up-to-date	D) be easy to maintain	
77) Hagendorf (1998) estimated that techr between the 1980s a		77)
'productivity paradox.'		
A) doubled	B) increased fivefold	
C) decreased by 100%	D) dropped by half	
78) The problem with measuring the effect System (DSS) is that:	ct/impact of a Decision Support	78)
A) the real cost of the DSS is hidder	1	
B) must compare outcome in the ab measure impact	sence of the DSS in order to	
C) operators need to come 'up-to-sp be made	peed' before a fair comparison can	
D) DSSs are costly		
79) Brynjolfsson (1993) estimates that a la	g of years is	79)
typical before strong organizational ir A) 3-4 B) 1-2	npacts of IS investments are felt. C) 2-3 D) 2-5	
80) For a bank, ATMs are more of a(n)		80)
than a competitive	advantage.	
A) productivity paradox	B) strategic initiative	
C) strategic necessity	D) recurring cost	
81) The example in the textbook regarding problems after the introduction of an		81)
which proxy measure and which tech	nology initiative?	
A) cheques; kiosks	B) cheques; ATMs	
C) ATMs; deposits	D) loan volume; ATMs	
82) In Canada, the number one reason firm Systems in 2004 was:	ms stated for adopting Information	82)
A) improve quality of service	B) increased efficiency	
C) customer communication	D) reduced cost	
83) Business case arguments can be based A) Fear B) phobia	on all of the following EXCEPT: C) Facts D) Faith	83)
84) If it is so difficult to measure the bene		84)
do organizations continue to invest (h	eavily) in them?	
A) information systems people alrementation		
B) competitive pressures make ther	n a necessity	

A) workforce rightsizing

D) systems are a business proce	SS	
85) Procter & Gamble has a wide procimplement	-	85)
to integrate and streamline invent		
A) enterprise marketing strategi	•	
B) enterprise resource planning		
C) enterprise database manager		
D) enterprise inventory manage		
86) An intangible benefit of a web-bas	sed system for an organization might	86)
be:		
A) lower wages and salaries	1	
B) faster turnaround time for or		
C) better inventory managemen		
D) overall improved perception	of the firm	
87) Each of the following is one of Rul of IT infrastructure EXCEPT:	bin's categories for assessing the value	87)
A) architectural value	B) operational value	
C) intrinsic value	D) economic value	
88) One of the most important yet siminformation system is to: A) ask users what they think of B) look at your competitions assessystems		88)
C) measure what senior manage	are think is important	
D) calculate productivity measure		
b) calculate productivity incase	nes using proxy variables	
89) In the E-Business Innovation Cycle over time in which order?	e (Wheeler 2002), the process proceeds	89)
A) Matching, Choosing, Executi	ing, Assessing	
B) Executing, Choosing, Matchi	ng, Assessing	
C) Choosing, Matching, Executi	ng, Assessing	
D) Choosing, Matching, Assessi	ng, Executing	
90) Many would argue that if you startechnology to it, you: A) will need newer technology B) will need more efficient technology C) will succeed D) are doomed		90)
91) Who said "Everything that can be A) C.H. Duell, commissioner, UB) H, M. Warner, Warner Broth C) Thomas Watson, chairman, ID) Lord Kelvin, president, Roya	S Office of Patents ers BM	91)
92) To deploy emerging systems well,	people in the organization must be	will ing to

C) reduced competition has made systems a necessity

to all of the	92)		
followin			
g EXCEPT:			
	A) set aside political squabbles		
	B) determine competitors' strategy		
	C) pull together for a common goal		
	D) bypass and eliminate internal bure	eaucracy	
93)	An organization with a traditional, cons	servative culture will most likely:	93)
	A) tolerate the risk of implementing e	emerging technology.	
	B) embrace emerging technology.		
	C) outsource the implementation of e		
	D) not tolerate the risk of implementi	ng emerging technology.	
94)	Implementing a system to allow your co	ustomers to check the status of	94)
	their order could easily be copied by co	mpetitors. In this case, the	
	competitive advantage has become a:		
	A) competitive necessity	B) competitive intelligence	
	C) strategic alliance	D) strategic elimination	
95)	Bakos and Treacy argue that a firm will	sustain competitive advantage	95)
	from technology if they use it to:		
	A) reduce barriers to entry in the ind	-	
	B) reduce your human resource requ		
	C) make your product or service union	que	
	D) lower switching costs		
96)	Building a sophisticated and comprehen	nsive Customer Relationship	96)
	Management system to include the enti-	• •	
	with your customers could have the effe		
	A) raising barriers to exit the industry		
	B) creating a competitive environment	3	
	C) lowering switching costs for your D) raising switching costs for your cu		
	D) faising switching costs for your co	istomers.	
	LSE. Write 'T' if the statement is true		
97)	A "learning organization" is defined as	an organization that provides	97)
	educational benefits to its employees.		
98)	Shoshana Zuboff (1988) explained that a	a technology informates when it	98)
	provides information about its operatio		
	process that it supports.		
99)	A combined automating and learning a	pproach, in the long run, is more	99)
,	effective than an automating approach		
400	T . 1	66 16	100)
100)	Total quality management is a formal g		100)
	quality of organizational performance a	на operations.	
101)	Low cost leadership strategy, differentia	ation strategy, and best-cost	provider

strategy are examples of organizat ional learning.		
102)	Companies like Zellers, which offer the best prices for goods and/or services, are examples of the low-cost leadership strategy.	102)
103)	Companies like Porsche, Holt Renfrew, and IBM, which offer better products or services than their competitors, are examples of the best-cost provider strategy.	103)
104)	An ATM network is unlikely to become a source of competitive advantage for a Canadian bank.	104)
105)	Michael Porter developed the value chain analysis model.	105)
106)	A system that uses the Internet for business-to-business interaction is called an Intranet.	106)
107)	A computer-aided design system uses computers to design state-of-the-art, high-quality products.	107)
108)	"Productivity paradox" is when IS expenditures have risen but productivity has not increased at the same rate.	108)
109)	When employees in a business unit (e.g., Accounting or Human Resources) assist in the creation of an information system it is called business unit production.	109)
110)	Information systems designed to improve decision making are called decision support systems.	110)
111)	Making the business case is the process of building and presenting the set of arguments that show that an information system is adding value to the organization.	111)
112)	When making a successful business case, "Arguments based on the notion that if the system is not implemented, the firm will lose out to the competition or, worse, go out of business" are known as an argument based on fact.	112)
113)	When making a successful business case, "Arguments based on data, quantitative analysis, and/or indisputable factors" is known as an argument based on faith.	113)
114)	Probably the most important factor that can affect IS investment is the nature of competition or rivalry in the industry.	114)

115)	Moore's Law deals with five primary competitive forces.	115)
116)	A cost-benefit analysis is one way to present a business case based on fact.	116)
117)	Tangible costs are one-time costs that are not expected to continue after the system is implemented.	117)
118)	Employee salaries and benefits are examples of intangible costs.	118)
119)	The largest recurring costs are usually computer equipment costs.	119)
120)	Tangible costs are those that are hard to quantify, that is, they are difficult to evaluate and track.	120)
121)	Benefits such as improved perception of the firm and faster turnaround on order fulfillment are examples of intangible benefits.	121)
122)	The IS manager has overall responsibility for managing IS development, implementation, and maintenance.	122)
123)	One might present a business case to any of these: the IS manager, company executives, or a steering committee.	123)
124)	Work profile matrices measure changes in terms of perceived value.	124)
125)	A company is said to have a monopoly when it has gained an edge over its rivals.	125)
126)	The term e-commerce is generally used to mean the use of the Internet and related technologies that support interactive purchasing.	126)
127)	The four consecutive stages of Choosing, Matching, Executing, and Assessing make up the System Development Life Cycle.	127)
128)	New technologies that are anticipated to have an impact on businesses are called firmware.	128)
129)	To be successful in e-business it is important to match new technologies with economic opportunities.	129)
130)	Competitive advantage gained by using information systems is usually short-lived because competitors can copy emerging information systems.	130)
131)	The prediction that the number of transistors that could be squeezed onto a silicon chip (which correlates to microchip processing speed) doubles every 18 months is called Moore's Law.	131)
132)	Without 'learning' it is more difficult to uncover bad business processes underlying the information system.	132)

from an employer.	133)
134) An organization displays competitive necessity whenever it has an edge over rivals in attracting customers and defending against competitive forces.	134)
135) For an information system to become the source of competitive advantage it must be valuable and rare.	135)
136) The Avis airport computer-supported checkin system reduced the elapsed time for the transaction from 5-20 minutes to 1-5 minutes.	136)
137) Benchmarking refers to comparing the cost of your system with that of your competitor's system.	137)
138) A system that is not adding value to an organization should be maintained.	138)
139) It is estimated (Hagendorf, 1998) that technology-related spending increased twofold between the 1980s and the 1990s.	139)
140) One of the difficulties with measuring the value added by a DSS is that it is difficult to compare the outcome of the decision with and without the DSS since, by definition, the latter never occurred.	140)
141) Often productivity gains can be masked owing to using the same proxy measure before and after technology introduction.	141)
142) ATMs have become a strategic necessity in the baking industry.	142)
143) In a 2004 survey, the number one reason cited by Canadian businesses for introducing technology was to reduce costs.	143)
144) Rubin (CIO, June 2004) suggested four categories for assessing the value of the IT infrastructure. These are: economic value; architectural value; operational value and regulatory and compliance value.	144)
145) Implementing a system is easy. What is difficult is using the system to create and sustain competitive advantage.	145)
146) If the necessary skills for deployment of an IS are not available within the organization, the system is doomed to failure.	146)
147) One of the prerequisites for introducing an IS that allows customers to see internal information is that such information must be shared inside the organization first.	147)
SHORT ANSWER. Write the word or phrase that best completes each statement	or answers
the question.	
148) Technology is said to when we take a manual 148) _ process (done by hand) and use computers to perform the task.	
process (done by hand) and use computers to perform the task.	

149)	Technology is said to when it provides	149)
	information about its operation and the underlying work process that it supports.	
150)	In a corporate setting, " planning" involves	150)
	forming a vision of where the organization needs to head, setting objectives and performance targets, and crafting a	
	strategy to achieve the desired results.	
151)	Companies like Porsche, Holt Renfrew, and IBM, which offer	151)
	better products or services than their competitors, are examples	
	of the strategy.	
152)	The process of adding value throughout an organization is	152)
152)	called a chain.	132)
153)	A system that uses the Internet for business-to-business	153)
	interaction is called a(n)	
1 = 4\		154)
154)	The use of computers to design state-of-the-art, high-quality products is called a system.	154)
	products is cance asystem.	
155)	"Making the case" for an information system	155)
	means identifying the value provided by an information system	
	to the organization or its constituents.	
150	The Board described	156)
136)	The "productivity" is the realization that while IS expenditures have risen, productivity has not increased at the	136)
	same rate.	
157)	When employees in a business unit (e.g., Accounting or Human	157)
	Resources) assist in the creation of an information system it is	
	called development.	
158)	Information systems designed to improve decision making are	158)
100)	called systems.	100)
159)	Information systems that help the organization enter a new	159)
	market, gain or maintain market share, better serve customers,	
	etc., are known as systems.	
160)	Making the case is the process of building and	160)
100)	presenting the set of arguments that show that an information	100)
	system is adding value to the organization.	
161)	In cases in which it is not easy to quantity the impact of an	161)
	investment, you can come up with, to help	
	clarify what the impact on the firm will be.	
162)	business refers to the use of information	162)
,	technologies and systems to support the business.	,

163)	Rivals can copy emerging information systems, so this form of competitive advantage can be	163)
164)	Intel founder Gordon Moore predicted that the number of transistors that could be squeezed onto a silicon chip would double every months.	164)
165)	Information loaded into Stantec's SMKC system immediately becomes available to employees through the company	165)
166)	In 1993, David Garvin described a as one that is "skilled at creating, acquiring and transferring knowledge, and at modifying its behaviour to reflect new knowledge and insights."	166)
167)	Without learning, it is difficult to uncover bad underlying the information system.	167)
168)	A recent survey found that percent of employees had stolen key information from an employer.	168)
169)	An organization has whenever it has an edge over rivals in attracting customers and defending against competitive forces.	169)
170)	Holt Renfrew pursues a strategy.	170)
171)	Even if a technology is both valuable and rare, it must resist and if it is to sustain a competitive advantage.	171)
172)	While it is relatively easy to copy the implementation of technology, it is much for difficult to duplicate the use of that technology.	172)
173)	Simply dropping a system into an organization will not guarantee success, even with the best of technology. Often what is required is a commensurate analysis of and improvement in the way business is done. This process is referred to as a	173)
174)	Brynjolfsson (1993) reports that lags of 2-3 years are typical before strong organizational impacts of IS are felt.	174)
175)	In Canada, the UK, Australia and Japan, the number one reason for adopting information systems cited by business in 2004 was	175)

176)	Three types of arguments commonly made in the business case 176)
170)	for an information system are those based on, and
177)	If an argument were made in a business case that the firm needs a particular information system because "all of our competitors have it!", this is an argument based on
ESSAY. Write your answer in the space provided or on a separate sheet of paper. 178) Explain the value added from automating, informating and strategizing wit information systems.	
179)	Discuss various options for organizational strategy. What options are there for strategic planning that might give a company competitive advantage?
180)	Describe how Avis Rent A Car used technology in an effort to gain competitive advantage over its rivals.
181)	Discuss the potential role of IS in value chain analysis.
182)	The "productivity paradox" is the phenomenon in which productivity doesn't seem to rise proportionally to IS expenditures. What are some of the factors that make a company's productivity difficult to measure?

- 183) Arguments for an information system can be based on faith, fear, or fact. Describe all
- 184) Discuss some strategies for effectively making a business case to some high-level leaders in an organization.
- 185) Describe the E-Business Innovation Cycle.

three.

- 186) What are some of the requirements for a business to be at the cutting edge of technology?
- 187) A Decision Support System (DSS) is designed to improve decision making. Why is measuring the impact of introducing the system difficult?
- 188) Appelgate and McFarlan outline five impacts of IS on competitive forces. List the five impacts, their corresponding implications for the firm, and at least one potential use of IS to combat the competitive force.
- 189) Rubin (CIO, June 2004) has suggested four categories for assessing the value of IT infrastructure. List and describe each. Use examples as appropriate.

- 1) B
- 2) A
- 3) D
- 4) D
- 5) A
- 6) C
- 7) D
- 8) C
- 9) C
- 10) B
- 11) C 12) A
- 13) B
- 14) A
- 15) B
- 16) B
- 17) D 18) B
- 19) C
- 20) D
- 21) C
- 22) C
- 23) A
- 24) A
- 25) C
- 26) C
- 27) B
- 28) D 29) B
- 30) D
- 31) A
- 32) B
- 33) B
- 34) A
- 35) D 36) B
- 37) A
- 38) B
- 39) B
- 40) A
- 41) B
- 42) C
- 43) B
- 44) B 45) D
- 46) A
- 47) C
- 48) A
- 49) A
- 50) C 51) C

- 52) A
- 53) D
- 54) B
- 55) D
- 56) A
- 57) D
- 58) D
- 59) C
- 60) C
- 61) A
- 62) D
- 63) B
- 64) C
- 65) A
- 66) C
- 67) B
- 68) C
- 69) A
- 70) A
- 71) B
- 72) A
- 73) D
- 74) D
- 75) B
- 76) A
- 77) B
- 78) B
- 79) C
- 80) C
- 81) B
- 82) B
- 83) B
- 84) B
- 85) B
- 86) D
- 87) C
- 88) C
- 89) C
- 90) D
- 91) A
- 92) B 93) D
- 94) A
- 95) C
- 96) D
- 97) FALSE
- 98) TRUE
- 99) TRUE
- 100) TRUE
- 101) FALSE
- 102) TRUE 103) FALSE

- 104) TRUE
- 105) TRUE
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- 107) TRUE
- 108) TRUE
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- 110) TRUE
- 111) TRUE
- 112) FALSE
- 113) FALSE
- 114) TRUE
- 115) FALSE
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- 117) FALSE
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- 121) TRUE
- 122) TRUE
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- 127) FALSE
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- 130) TRUE
- 131) TRUE
- 132) TRUE
- 133) FALSE
- 134) FALSE
- 135) TRUE
- 136) FALSE
- 137) FALSE
- 138) FALSE
- 139) FALSE
- 140) TRUE
- 141) TRUE
- 142) TRUE
- 143) FALSE
- 144) TRUE
- 145) TRUE
- 146) FALSE
- 147) FALSE
- 148) automate
- 149) informate
- 150) strategic
- 151) differentiation
- 152) value
- 153) Extranet
- 154) computer aided design (CAD)
- 155) business

- 156) paradox
- 157) end-user
- 158) decision support
- 159) strategic
- 160) business
- 161) proxy variables
- 162) Electronic
- 163) short-lived
- 164) eighteen
- 165) intranet
- 166) learning organization
- 167) business processes
- 168) seventy (70)
- 169) competitive advantage
- 170) focussed differentiation
- 171) imitation, substitution
- 172) strategic
- 173) business process reengineering
- 174) investments
- 175) increased efficiency
- 176) fact, faith and fear
- 177) fear
- 178) Automating involves the use of technology to complete a task within an organization faster, better, cheaper, and with greater consistency. Informating goes beyond automating because it involves learning to improve the day-to-day activities within a process. A learning organization is one that is skilled at creating, acquiring, and transferring knowledge, and at modifying its behaviour to reflect new knowledge and insights. Strategizing is associated with strategic planning, the process of forming a vision of where the organization needs to head, converting the system into measurable objectives and performance targets, and crafting a strategy to achieve the desired results.
- 179) Several options exist for organizational strategy. An organization might pursue a low-cost leadership strategy, like Dell Computers or Zellers, in which it offers the best prices in its industry on goods and services. Another option would be a differentiation strategy where an organization creates better products or services than its competitors. Companies like Holt Renfrew and IBM do this. Or, a middle-of-the road strategy called the best-cost provider might be an option, where products or services of reasonably good quality are offered at competitive prices. The Bay is an example of a best-cost provider. Other strategies include having the best-made product, having superior customer service, having lower costs, shorter lead times, and well-known name brands.
- 180) Avis equipped customer service representatives with hand-held computers and printers strapped to their waists or over their shoulders. As customers would return their rental cars the customer service representatives would input the car license number, mileage, and fuel level. By the time the customer has gotten out of the car and retrieved their luggage, their paperwork and receipt has already been printed. The paperwork is completed right away. The advantage for the customer is a lot of time saved. The advantage for Avis is happier customers, more efficient service, and ultimately more business.
- 181) There are five aspects to the value chain in an organization. These are (1) purchased supplies or inbound logistics, (2) operations, (3) outbound logistics, (4) sales and marketing, and (5) service. Foundational to these five operations are general administration, human resource management, and product R & D, technology, and systems development. IS can enhance the value chain. For example, inbound logistics can be supported by Internet links to suppliers, operations can be enhanced by computer-aided

man ms, and outbound logistics can be facilitated by Internet links to dealers. An online product ufact catalog and ordering would enhance sales and marketing. Service would be enhanced by a urin customer service response system. A variety of project management software and financial decision support software would bolster the foundational aspects of the value chain.

- 182) Factors that mask, hide, or reduce productivity in an organization include government regulations, complex tax codes, and more complex products. Employees might reduce productivity by spending excessive amounts of time surfing the Web to check sports or other types of Web sites. Other employees might download and play software games. Junk mail slows productivity. Lastly, benefits might not be measurable or detectable. How does one quantify the benefits of, say, e-mail for example? How does one measure the return on investment of project management software? Further complicating the quantification issue is that expected benefits are not always defined in advance.
- 183) Arguments based on faith are arguments based on beliefs about organizational strategy, competitive advantage, industry forces, customer perceptions, market share, and so on. An example of an argument by faith would be, "I have a gut feeling that Customer Relationship Management will solve our sales and services problems and enable us to serve our customers better than the competition." Arguments based on fear focus on the negative consequences of *not* taking action with regard to implementing a system. Perhaps the fear centres on lost market share or going out of business. An example of an argument based on fear is, "If we don't acquire Project Management software our competitors will be able to outpace us in the industry." Lastly, arguments based on facts involve the use of data, quantitative analysis, or other indisputable factors. An argument based on fact might be, "This cost/benefit analysis shows that an Enterprise Resource Planning system will save us 25% in reduced operating costs over each of the next three years."
- 184) First, it is important to know the audience. Whether the audience is an IS manager, company executives (vice presidents or higher), or a steering committee, the key thing is to know the audience and their strategic direction for the company. It is imperative that the desired IS system fit well with the defined goals of the company. Whenever possible, convert the corporate benefits generated by the proposed system into monetary terms. Corporate leaders understand money. They want to know the impact or advantage to the bottom line, that is profitability. Proxy variables that measure changes in perceived value to the company are a good alternative if quantification of financial benefits isn't possible. Another alternative would be to use a work profile matrix to calculate the amount of money or percent of change by work categories within departments. The most important thing to remember in all these benefit assessment methodologies is to measure what is important to management.
- 185) The E-Business Innovation Cycle is comprised of four phases. First is **choosing** enabling or emerging technologies that will enhance the company. Doing so will convey new IT insights into the business. Second, one must **match** the technology to economic opportunities. The combination of emerging technology matched to economic opportunity sets the stage for e-business initiatives. Third, one must **execute** business innovation for growth. Then, the innovations or value propositions must be implemented in the marketplace. Fourth and last, **assessment** of external customer and internal client value must be evaluated. The organizational learning that takes place from assessment must be applied to each of the first three phases (choosing, matching, and executing).
- 186) Being competitive means doing things faster, better, and cheaper than the other guy. Porter's five competitive forces should always be in mind: threats from traditional rivals, new entrants into the market, customer bargaining power, supplier bargaining power, and potential substitute products are all risk factors. The bottom line is to know where the threat is coming from and adapt technology to the high-risk area(s). Still, before an organization can deploy new systems well, its people, structure, and processes must be

capa ting well to change. And, given a willingness to change, the personnel in your organization ble must have enough resources, time, knowledge, and skills to adapt. The people must have of the appropriate tolerance for risk, uncertainty, and unexpected problems that might arise.

- 187) One needs to measure the differences in outcome between decisions made WITH and WITHOUT the DSS in place. This kind of comparison is difficult to make in a business setting. Furthermore, it is not clear what constitutes 'adding value' in this context. Does adding value mean making decisions that result in better outcomes, improving the decision-making process, having the capability of making more decisions, being able to justify a decision more effectively, making people fell better about the decision outcomes or the decision-making process, or some combination of these and other factors? Until it becomes clear, the making a decision about the value of a DSS will remain difficult.
- 188) 1) Traditional rivals within your industry lead to competition in price, product, distribution and service. Firms can implement an ERP to reduce costs and improve action and reaction time, and/or implement a website to offer better service to customers.
 - 2) Threat of new entrants into your market leads to increased capacity in the industry, reduced prices and/or decreased market share. Firms can implement or improve their website to reach customers and differentiate products; implement inventory control systems to lower costs and better manage excess capacity.
 - 3) Customer bargaining power leads to reduced prices, increased quality and/or demand for more services. Firms can implement a CRM system to serve customers better, implement computer-aided design and/or computer-aided manufacturing to improve product quality.
 - 4) Supplier bargaining power leads to higher prices and reduced quality. Firms can use internet to establish closer electronic ties with suppliers and to create relationships with new suppliers located far away.
 - 5) Threat of substitute products from other industries leads to potential returns on products, decreased market share and/or losing customers for life. Firms can use DSS and customer purchase database to better assess trends and customer needs, and/or use computer-aided design systems to refine products.
- 189) 1) Economic value: the contribution of the infrastructure to the business. Use important business metrics to gauge the value. An airline might use revenue per passenger mile.
 - 2) Architectural value: the capacity of the infrastructure to meet business needs today and in the future. It depends on characteristics such as interoperability, portability, scalability, recoverability and compatibility. each business unit should provide their own measurements on each dimension.
 - 3) Operational value: An assessment of the actual performance of the infrastructure in meeting business process requirements. Measuring the cost to the business resulting from an outage is a good indicator of loss to revenue, staff productivity or customer base.
 - 4) Regulatory and Compliance value: The extent to which the infrastructure helps to meet requirements for control, security and integrity as required by a governing body or a key customer.

Ruban argues that each should be compared with external benchmarks where possible.