1. Research the following terms on the Internet to link the following terms with their descriptions:

Item	Description
A). Random Access Memory (RAM)	(i). The circuit board on which the CPU, expansion cards and power are connected to
B). Read Only Memory (ROM)	(ii). A Wireless Protocol for transferring data (data files or Internet files) over a network at high speed up to 50m
C). Firmware	(iii). A Protocol (language) for transferring data wirelessly (slowly) up to 10m
D). Bus	(iv). Standard computer used in organisations, schools and homes containing a CPU, RAM, Hard disk drive, monitor, keyboard, mouse etc
E). PCMCIA	(v). The main computer in a network loaded with a network operating system to control access to files, programs & peripherals (printers, scanners etc)
F). Parallel Port	(vi). A bus system for transferring video and data at high rates (400 Mbps)
G). Serial Port	(vii). A type of Serial port that transfers data at fast rates and allows many devices (scanners, CD writers, modems, etc) to be connected at a time
H). Universal Serial Bus (USB, USB2)	(viii). A port that transfers data 1 bit at a time usually associated with a mouse, joystick or modem
I). Firewire	(ix). A port used for connecting printers that transfers data 8 bits at a time
J). Server	(x). Personal Computer Memory Card Internal Association expansion card for connecting external CD writers/readers, bluetooth, modems etc to laptops
K). Personal Computer (PC)	(xi). Pathway for transferring data between components on the Motherboard to peripheral devices
L). Bluetooth	(xii). Software instructions stored in the ROM
M). Wifi	(xiii). Memory that can be read but not changed and is not volatile
N). Motherboard	(xiv). Memory that can be changed depending upon the program being used but is volatile – lost when power is turned off

A). =	B). =	C). =	D). =	E). =	F). =	G). =
H). = .	D. = .	J). = .	K). = .	L). = .	$\mathbf{M}). = .$	N). =

2. Complete the following conversions (you may need to research information on the Internet):

a). 8 bits = byte (a character – letter or dig	it). b). 1024 bytes = 1	(kB).
c) kB = 1 Megabyte (MB).	d). 1024 MB = 1 Gigabyte ().	
e). 1 Terabyte (TB) = GB.		
f). 1 Megahertz (MHz) = cycles/se	ec. g). 1 Gigahertz (GHz) =	cycles/ sec.
h). If 1 $\mathbf{Mbps} = 1,000,000$ bits per second & there a	re 8 bits in 1 byte, then 400 Mbps =	MBps

3. Identify the RAM capacity, printer resolution and hard disk capacity in the following scenario:

An IBM Presario computer with 512 MB DDRAM, 80 GB Maxtor HDD, 17" XGA monitor, Tektronic 600 DPI B&W Laser Printer, soft feel keyboard, Microsoft Windows operating system and Microsoft Office.

RAM: . Printer: . Hard Disk: .

4. Using the advertisement below, identify the specifications of the:

Intel Pentium Core 2 Duo 2.16GHz, 1GB DDR2 RAM, 250GB Seagate HD, 8xDual Layer DVD Writer, nVidia GeForce 7600GT 256MB, 1xFireWire400, 3xUSB2, 10/100/1000Base-T, Wifi and Bluetooth 2.0

- a). Storage devices:
- b). Network Protocols:

IT 3 APP	Due:	AN INFORM	MATION SYSTEM	Name:
1. Identify ar	nd explain the fiv	e components of an Info	ormation System (refer	to IT APPLICATIONS, Page 3):
a).			b).	
c).			d).	
e).				
	49 (C 4 IT	A DDI LO A TLONG D	2)	
2. What is in	iput? (refer to 11	APPLICATIONS, Page	: 3):	
3. What must	t be done to "raw	" Data to turn it into use	eful Information (refer	to IT APPLICATIONS, Page 3):
		et example on Page 3 and mation System compone		o list at least one characteristic of
(i). Hardy	ware:		(ii). Data:	
(iii). Perso	onnel:		(iv). Procedures :	
b). List on	e way in which t	he information about the	e items is validated.	
c). In wha	t ways are the cu	stomers involved in the	transactions?	
5. Link the fo	ollowing types of	Software to their defini	itions (refer to IT APPL	ICATIONS, Page 4-6):
	em/Operation	1		rammer to perform different tasks
B). Appl		(ii). Programs to pro	tect the computer or eli	minate problems/errors
C). Utilit	•			to produce useful information
, ,	ramming guage	. ,	form all required tasks	and control the functions of the
		. = D). =	•	
6 Categorise	e each of the follo	owing software titles as (Oneration Application	, Utility or Programming software:
a). Micros		o). Norton Utilities.	c). Microsoft XP.	d). McAfee VET.
,		,	,	,
e). C++	i). Limewire.	g). Mac OS X.	h). Media Player.
		NE <u>example</u> of these Ha	rdware components (ref	fer to IT APPLICATIONS, Page 6):
a). Input	Devices:			Example:
b). Outpu	t Devices:			Example:
c). System	ı Unit:			Example:
d). Storag	ge Devices:			Example:
e). Comm	unication Devic	es:		Example:

APP Due:	DATA AND INFOR	MATION Name:
What are the five raw, unorg	anised types of Data (refer to I'	Γ APPLICATIONS, Page 6):
a).	b).	c).
d).	e).	
J 1	ersonnel that use or work with () (refer to IT APPLICATIONS,	computers or ICT (Information and Page 7);
a).	b).	
c).	d).	
e).		
Use the following scenario to produce information:	o identify the Personnel, Equip	oment, Data and Procedures that is being used to
contains 256 MB of RAM, 30 System OSX 10.2 and Adob photographs at a resolution of and reduce any noise. Photo	GB hard disk and a XGA Grap e Photoshop 7.0. Photoshop ha of 1200 DPI and then its filters o	k to edit scanned photographs. Her iBook hics card as well as the Macintosh Operating s plugins to drive an Epson scanner to scan in can be used to adjust the color balance, contrast the file in a variety of different formats for use in utions to any type of printer.
Personnel:	Data:	
Equipment:		
Procedures:		
a). Explain the difference be	tween Data and Information (r	refer to IT APPLICATIONS, Page 7):
b). Explain the difference be APPLICATIONS, Page 7):	tween Primary Data Sources a	and Secondary Data Sources (refer to IT
		b). Explain the difference between Primary Data Sources a APPLICATIONS, Page 7):

5. Link the following properties of **Information** to their definitions (refer to IT APPLICATIONS, Page 8-11):

A). Suitability/Relevance	(i). The information is presented in the same way/format each time
B). Reliability	(ii). The information is clearly expressed
C). Accuracy	(iii). The information shows no favouritism towards one particular group
D). Timeliness	(iv). All of the information is complete – no omissions
E). Completeness	(v). The information is up-to-date
F). Non-biased	(vi). The information has no wrong details included
G). Clarity	(vii). The information was from a reputable and professional source
H). Consistency	(viii). The information relates to the topic and is in an adequate format

A). = ____. B). = ____. C). = ____. D). = ____. E). = ____. F). = ____. G). = ___. H). = ___.

6. Research information in the newspaper or a magazine that is IRRELEVANT or UNRELIABLE or WRONG or OUT-OF-DATE or INCOMPLETE or BIASSED or UN-CLEAR or INCONSISTENT and attach it below:

A). Acquisition (i). The file containing the information is stored for later use or deleted B). Input (ii). The information is mailed, faxed or sent via email for discussion. C). Validation (iii). The information is viewed on the screen (softcopy) or printed (hat D). Manipulation (iv). The file containing the information is opened for editing, printing. E). Storage (v). The information is saved to a relevant folder using appropriate file F). Retrieval (vi). The raw data is checked for accuracy, completeness, consistency. II). Communication (viii). The raw data is checked for accuracy, completeness, consistency. II). Communication (viii). The raw data is checked for more primary or Secondary sources. A).—, B).—, C).—, D).=, F).—, F).=, G).—, H).=, 1).= 2. For each of the Information Processing stages, provide four examples to represent the stage (refer to I APPLICATIONS, Page 11-14): a). Acquisition: b). Input: c). Validation: d). Manipulation: c). Validation: d). Manipulation: c). Validation: d). Manipulation: d). Manipulation: c). Validation: d). List the four reasons for producing information (refer to IT APPLICATIONS, Page 14 and again on I a). b). c). d).	1. Link the following properti	es of Information to the	eir definitions (refer to IT APPLICA	TIONS, Page 11-14):
B). Input (ii). The information is mailed, faxed or sent via email for discussion C). Validation (iii). The information is viewed on the screen (softcopy) or printed (fine). D). Manipulation (iv). The file containing the information is opened for editing, printing. E). Storage (v). The information is saved to a relevant folder using appropriate file F). Retrieval (vi). The raw data is changed into useful information (viii). The raw data is checked for accuracy, completeness, consistency. II). Communication (viii). The raw data is entered using a keyboard, mouse or scanner II). Archival/Disposal (ix). The raw data is collected from Primary or Secondary sources. A). =, B). =, C). =, D). =, E). =, F). =, G). =, H). =, 1). =, C). =, D). =, E). =, F). =, G). =, H). =, 1). =, C). =, D). =, E). =, F). =, G). =, H). =, 1). =, C). =, D). =, E). =, F). =, G). =, H). =, 1). =, C). =, D). =, E). =, F). =, G). =, H). =, D). =, C). =, D). =, E). =, F). =, G). =, H). =, D). =	A). Acquisition	(i). The file containing	ng the information is stored for later	use or deleted
C). Validation (iii). The information is viewed on the screen (softcopy) or printed (han D). Manipulation (iv). The file containing the information is opened for editing, printing. (E). Storage (v). The information is saved to a relevant folder using appropriate file F). Retrieval (vi). The raw data is chaecked for accuracy, completeness, consistency. H). Communication (viii). The raw data is cheecked for accuracy, completeness, consistency. H). Communication (viii). The raw data is entered using a keyboard, mouse or scanner. h). Archival/Disposal (ix). The raw data is collected from Primary or Secondary sources. A). =, B). =, C). =, D). =, E). =, F). =, G). =, H). =, 1). =, Application. Application of the Information Processing stages, provide four examples to represent the stage (refer to Information: a). Acquisition: b). Input: c). Validation: c). Validation: d). Manipulation: e). Storage: f). Output: g). Communication: 3. List the four reasons for producing information (refer to IT APPLICATIONS, Page 14 and again on Information). B). c). d).		` '		
E). Storage (v). The information is saved to a relevant folder using appropriate file F). Retrieval (vi). The raw data is changed into useful information (viii). The raw data is checked for accuracy, completeness, consistency H). Communication (viii). The raw data is entered using a keyboard, mouse or scanner D). Archival/Disposal (ix). The raw data is collected from Primary or Secondary sources A).=, B).=, C).=, D).=, E).=, F).=, G).=, H).=, I).=, I).=	C). Validation	(iii). The information	is viewed on the screen (softcopy)	or printed (hardcopy)
F). Retrieval (vi). The raw data is changed into useful information G). Output (vii). The raw data is checked for accuracy, completeness, consistency II). Communication (viii). The raw data is entered using a keyboard, mouse or scanner (b). Archival/Disposal (ix). The raw data is collected from Primary or Secondary sources A). =, B). =, C). =, D). =, E). =, F). =, G). =, H). =, 1). = 2. For each of the Information Processing stages, provide four examples to represent the stage (refer to IAPPLICATIONS, Page 11-14): a). Acquisition: b). Input: c). Validation: d). Manipulation: e). Storage: f). Output: g). Communication: 3. List the four reasons for producing information (refer to IT APPLICATIONS, Page 14 and again on Ia). b). c). d).	D). Manipulation	(iv). The file containing	ng the information is opened for edi	ting, printing etc.
G). Output (vii). The raw data is checked for accuracy, completeness, consistency H). Communication (viii). The raw data is entered using a keyboard, mouse or scanner D. Archival/Disposal (ix). The raw data is collected from Primary or Secondary sources A). =, B). =, C). =, D). =, E). =, F). =, G). =, H). =, D). =, D). =, E). =, F). =, G). =, H). =, D). =, D). =, E). =, F). =, G). =, H). =, D). =, D). =, D). =, E). =, F). =, G). =, H). =, D). =, D). =, D). =, E). =, F). =, G). =, H). =, D). =, D). =, D). =, E). =, F). =, G). =, H). =, D). =, D). =, D). =, E). =, F). =, G). =, H). =, D). =, D). =, D). =, E). =, F). =, G). =, H). =, D). =, D). =, D). =, E). =, F). =, F). =, G). =, H). =, D). =, D). =, D). =, D). =, E). =, F). =, F). =, F). =, D). =, D). =, D). =, D). =, D). =, E). =, F). =, F). =, D). =	E). Storage	(v). The information	is saved to a relevant folder using a	ppropriate filenames
H). Communication (viii). The raw data is entered using a keyboard, mouse or scanner (ix). The raw data is collected from Primary or Secondary sources A). =, B). =, C). =, D). =, E). =, F). =, G). =, H). =, I). = 2. For each of the Information Processing stages, provide four examples to represent the stage (refer to IAPPLICATIONS, Page 11-14): a). Acquisition: b). Input: c). Validation: c). Validation: e). Storage: f). Output: g). Communication: 3. List the four reasons for producing information (refer to IT APPLICATIONS, Page 14 and again on Ia). b). c). d).	F). Retrieval	(vi). The raw data is c	changed into useful information	
(ix). The raw data is collected from Primary or Secondary sources A) =, B) =, C) =, D) =, E) =, F) =, G) =, H) =, D_ =, D_ =, D_ =, E) =, F) =, G) =, H) =, D_ =	G). Output	(vii). The raw data is c	checked for accuracy, completeness,	consistency
A). =, B). =, C). =, D). =, E). =, F). =, G). =, H). =, 1). = 2. For each of the Information Processing stages, provide four examples to represent the stage (refer to I APPLICATIONS, Page 11-14): a). Acquisition: b). Input: c). Validation: c). Storage: f). Output: g). Communication: 3. List the four reasons for producing information (refer to IT APPLICATIONS, Page 14 and again on I a). b). c). d).	H). Communication	(viii). The raw data is e	entered using a keyboard, mouse or	scanner
2. For each of the Information Processing stages, provide four examples to represent the stage (refer to I APPLICATIONS, Page 11-14): a). Acquisition: b). Input: c). Validation: d). Manipulation: e). Storage: f). Output: g). Communication: 3. List the four reasons for producing information (refer to IT APPLICATIONS, Page 14 and again on I a). b). c). d).	I). Archival/Disposal	(ix). The raw data is c	collected from Primary or Secondary	sources
APPLICATIONS, Page 11-14): a). Acquisition: b). Input: c). Validation: d). Manipulation: e). Storage: f). Output: g). Communication: 3. List the four reasons for producing information (refer to IT APPLICATIONS, Page 14 and again on I a). b). c). d). 4. List the three characteristics of audiences (refer to IT APPLICATIONS, Page 16):	A). = B). = C).	. = D). = E).	= F). = G). = H)	. = I). =
b). Input: c). Validation: d). Manipulation: e). Storage: f). Output: g). Communication: 3. List the four reasons for producing information (refer to IT APPLICATIONS, Page 14 and again on I a). b). c). d). 4. List the three characteristics of audiences (refer to IT APPLICATIONS, Page 16):			ide four examples to represent the s	tage (refer to IT
c). Validation: d). Manipulation: e). Storage: f). Output: g). Communication: 3. List the four reasons for producing information (refer to IT APPLICATIONS, Page 14 and again on I a). b). c). d). 4. List the three characteristics of audiences (refer to IT APPLICATIONS, Page 16):	a). Acquisition:			
c). Validation: d). Manipulation: e). Storage: f). Output: g). Communication: 3. List the four reasons for producing information (refer to IT APPLICATIONS, Page 14 and again on I a). b). c). d). 4. List the three characteristics of audiences (refer to IT APPLICATIONS, Page 16):	•			
d). Manipulation: e). Storage: f). Output: g). Communication: 3. List the four reasons for producing information (refer to IT APPLICATIONS, Page 14 and again on It a). b). c). d). 4. List the three characteristics of audiences (refer to IT APPLICATIONS, Page 16):	b). Input:			
e). Storage: f). Output: g). Communication: 3. List the four reasons for producing information (refer to IT APPLICATIONS, Page 14 and again on It a). b). c). d). 4. List the three characteristics of audiences (refer to IT APPLICATIONS, Page 16):	c). Validation:			
f). Output: g). Communication: 3. List the four reasons for producing information (refer to IT APPLICATIONS, Page 14 and again on Fa). b). c). d). 4. List the three characteristics of audiences (refer to IT APPLICATIONS, Page 16):	d). Manipulation:			
g). Communication: 3. List the four reasons for producing information (refer to IT APPLICATIONS, Page 14 and again on Fa). b). c). d). 4. List the three characteristics of audiences (refer to IT APPLICATIONS, Page 16):	e). Storage:			
 3. List the four reasons for producing information (refer to IT APPLICATIONS, Page 14 and again on Fa). b). c). d). 4. List the three characteristics of audiences (refer to IT APPLICATIONS, Page 16): 	f). Output:			
 a). b). c). d). 4. List the three characteristics of audiences (refer to IT APPLICATIONS, Page 16):	g). Communication:			
c). d). 4. List the three characteristics of audiences (refer to IT APPLICATIONS, Page 16):	-	oducing information (ref	_	and again on Page 16):
4. List the three characteristics of audiences (refer to IT APPLICATIONS, Page 16):	a).		b) .	
	c).		d).	
		•	<u> </u>	

IT 3 APP Due: INFORMATION PROCESSING STAGES Name:

<u>IT</u>	3 APP Due:	PROBLEM SOLVING M	IETHODOLOGY 1 Name:
1.	Each member should ha member's opinions and	ave equal rights, have access to be flexible. The goals should b	a team that can work well together to solve a problem. all information, be respectful of the other team e achievable and an achievable timeline set. ke decisions (refer to IT APPLICATIONS, Page 120):
			sed by distanced team members to record their changes posoft Word (refer to IT APPLICATIONS, Page 121):
2.	An Information Problem requires the use of Problem Solving Methodology if the Organisation's goals are not being met. eg. Information is poorly communicated, incomplete, inaccurate or out-of-date etc. Link the following stages of Problem Solving to their definitions (refer to IT APPLICATIONS, Page 22 & 123-137):		
	A). Analyse	(i). Determine if the solution	meets the needs of all users
	B). Design	(ii). Install the solution, train	the users to use efficient and effective procedures
	C). Develop	(iii). Write the user-document	
	D). Test		ices accurate and complete outputs
	E). Document		custom or off-the-shelf software
	F). Implement	· / · · · · · · · · · · · · · · · · · ·	the solution, to train the users and install it
	G). Evaluate	(vii). Define the problem that	needs the solution
	A). = B). =	C). = D). = E). = _	F). = G). =
3.	Identify each of the foll (i). Analysing the prob	-	refer to IT APPLICATIONS, Page 22-31 & 123-134): (ii). Designing the solution .
	a). Use Processing design	gn tools:	b). Describe the type of organisation:
	c). How is the output to	be formatted:	d). Define the benefits of the solution:
	e). Determine the data r	requirements:	f). Consider the format of the solution:
		conventions/formats:	h). Identify the ineffective information:
	= -	rams/screen mockups:	j). Describe how the organisation works:
	,	& data for the solution:	k). Define the Problem:
4.	_		nvention (refer to IT APPLICATIONS, Page 26):
	-	_	nvention (refer to IT APPLICATIONS, Page 26-28):
	(i). Making a heading b	old: (ii). Right align Spreadsheet numbers:
	(iii). Center page numb	ers: (iv). Left align address in letters:
	(v). Use thick borders a	round tables:(vi). Consistently use fonts and styles:
5.			s (refer to IT APPLICATIONS, Page 26-28, 155-156):
	a). Mailing Labels:	(i).	(ii).
	b). Quotations:	(i).	(ii).
	c). Bibliographies:	(i).	(ii).
	d). Numerical:	(i).	(ii).
	e). Graphs:	(i).	(ii).
	f). Reports:	(i).	(ii).

<u>IT</u>	3 APP Due:	PROBLEM SOLVING METHODOLOGY 2 Name:	
1.	Developing a solution to an Information Problem involves building the solution using the designs. a). Explain what is included in a Test Plan (refer to IT APPLICATIONS, Page 48):		
	b). Summarise how to test a	web site so it will be effective (refer to IT APPLICATIONS, Page 129-134):	
2.	Explain the difference betwee Page 50-51 and 134):	een Manual Validation and Electronic Validation (refer to IT APPLICATIONS,	
3.	Link the following definition	ns to the type of Validity Checks (refer to IT APPLICATIONS, Page 50-51, 157):	
	A). Reasonableness	(i). Proofreading for spelling, grammar, punctuation etc.	
	B). Format Consistency	(ii). Spell or Grammar checkers.	
	C). Range	(iii). Data entered is of the correct type. eg. Date for DOB field, \$ for Cost field.	
	D). Limit	(iv). Data entered matches the data in a database table.	
	E). Existence	(v). Checks that some data has been entered. eg. ID Code for new invoice.	
	F). Data Consistency	(vi). Data entered is not too high. eg. Credit card limits.	
	G). Data Type	(vii). Data entered falls within an expected range. eg. Vic postcodes start with 3.	
	H). Text	(viii). Enter data in an expected & consistent format. eg. 25/1/02 not 1/25/02.	
	I). Manual	(ix). Data entered conforms with expected data. eg. 2002 not 0202.	
	A). = B). = C).	= D). = E). = F). = G). = H). = I). =	
4.	ensures it is functional, usea	s used to ensure the solution meets the needs of the users. Testing the solution able, well presented and readable. Explain the difference between Formal Testing r to IT APPLICATIONS, Page 60):	
5.	List four items that would be a).	be checked by testing the solution (refer to IT APPLICATIONS, Page 136): b).	
	c).	d).	
6.	User Documentation is created to assist the users to effectively use the solution to produce the required information. List four different types of User documentation (refer to IT APPLICATIONS, Page 66):		
	a).	b).	
	c).	d).	
7.	List three characteristics of	"well-written" user documentation (refer to IT APPLICATIONS, Page 67):	
8.	Summarise the Implementation Process for using the new solution (refer to IT APPLICATIONS, Page 68):		
9.		nsiders the efficiency (time/cost savings) and effectiveness (accuracy, e) of the new solution (refer to IT APPLICATIONS, Page 70-71 and 137-138):	

b). Explain what should be done during the evaluation step:

a). After what period of time should the evaluation be done?

IT 3 APP Due: _	INFORMATION IN ORGANISATIONS	Name:
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- 1. **Information Flow** relates to how information is communicated between different organisation departments and management levels. Refer to IT APPLICATIONS, Page 17 and 19 to:
 - a). Draw Fig. 1-8 listing the Levels of Management & add the number of staff expected at each level:
 - b). Using Fig. 1-9, add the **Types of Decisions** made by each level of management:

2. Link the following structures of Information to their definitions (refer to IT APPLICATIONS, Page 17-18):

A). Detailed Reports	(i). Identifies data outside the accepted range and requires action by managers
B). Summary Reports	(ii). Shows a small section of the detailed information for managers
C). Aggregate Reports	(iii). Shows detailed information that only relates to one area for managers
D). Sample Reports	(iv). Summary of detailed information showing totals or averages for managers
E). Exception Reports	(v). Shows all information about all aspects of the organisation for managers

- 3. For each of the following types of **Decisions** (refer to IT APPLICATIONS, Page 18-19 & 151), provide:
 - (i). a definition.

- (ii). the approximate duration.
- (iii). the level of management it relates to.
- (iv). an example.

- a). Strategic Decisions:
- b). Tactical Decisions:
- c). Operational Decisions:
- d). Day-to-day Decisions:
- 4. Link the following Information Systems types to their definitions (refer to IT APPLICATIONS, Page 79-80):

A). Transaction Processing System (TPS)	(i). An Inference Engine (software) analyses data using facts & Expert rules called a Knowledge Base to make a decision or recommendation	
B). Office Automation System (OAS)		
C). Management Info System (MIS)	(iii). Generates useful information for managing an organisation. Used with a Transaction Processing System, it can manipulate the data for analysis	
D). Decision Support System (DSS)	(iv). Performs routine tasks using Word Processors, Databases etc (printing documents, tracking schedules, communicating between departments)	
E). Expert System (ES)	(v). Processes data generated by the day-to-day transaction (billing, accounts payable, inventory control)	

IT 3 APP

Due:

PROJECT MANAGEMENT

Name:

1. a). Define the term **Project Management Plan** (refer to IT APPLICATIONS, Page 28):

b). Define the following terms (refer to IT APPLICATIONS, Page 29-31):

(i). Milestone:

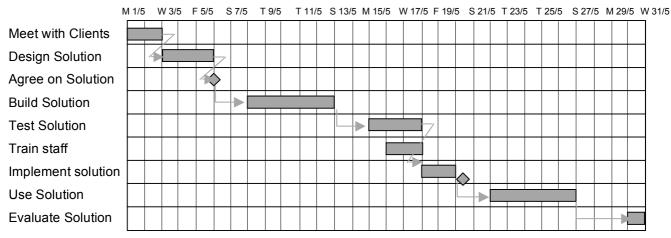
(ii). Predecessor:

(iii). Lead Time:

(iv). Lag Time:

(v). Critical Path:

2. Use the following GANTT chart to answer the following questions (refer to IT APPLICATIONS, Page 30):



a). What was the overall duration (in weeks & days) of the project?

b). Identify a **Milestone** that occurred during the project.

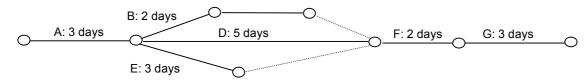
c). What task is not a **Predecessor** of any other task?

d). Which task provides "Lead Time" for the next task (excluding the weekend)?

e). If the implementation takes 1 day longer, what effect will this have on the project's expected end-date?

f). If the project had to be completed three days earlier, explain which tasks could be shortened and why.

3. Use the following PERT chart to answer the following question (refer to IT APPLICATIONS, Page 31):



a). List the stages that make up the Critical Path and shade the Critical Path on the above diagram?

b). What is the minimum number of days required to complete the project (using the Critical Path)?

c). If task E was delayed by 1 day, what effect would this have on the Critical Path and the project duration?

d). If the project started on a Monday and the organization is not open on the weekend, at the end of which day would the project be completed if there were no delays?

IT	3 APP	Due:	<u>NETWORKS 1</u>	Name:			
1.			ources, Connect, Network/File Sog definition of the term Network (erver, Conflicts, Share and refer to IT APPLICATIONS, Page			
	A Network	enables computers to _	together to	data and			
		(printers, scanners, Internet etc). The Network Operating System loaded on the					
			(main computer) controls th	ne			
			and handles	so the data is communicated			
	correctly programs can be used by many users to track changes in realtime.						
	Without a n	etwork, data could be d	luplicated and inconsistent so it	would need to be synchronised.			
2.	Explain the t	erm Remote Services and	d provide an example (refer to IT A	APPLICATIONS, Page 82):			
3.	Explain the d	lifference between a Netv	vork Server & a Workstation (re	fer to IT APPLICATIONS, Page 87):			

4. Link each of the following Network terms with their definition (refer to IT APPLICATIONS, Page 86-97):

A). Local Area Network (LAN)	(i). Process instructions from more than one program at a time
B). Wide Area Network (WAN)	(ii). Protocol to transfer data to PC with token using twisted pair cable
C). Network Architecture	(iii). Card to connect a computer to the network (wireless or cabled)
D). Hub (multi port eg. 8 port)	(iv). Protocol for the transfer of data on a network
E). Switch	(v). Protocol for data transfer of on the Internet/Intranet & networks
F). Nodes	(vi). Placed at end of a network line to prevent signals bouncing back
G). Intranet	(vii). Network with no network server where workstations share their files (music, programs, data) in "shared folders" with each other
H). Extranet	(viii). Intranet open to external sources for limited access
I). Peer-to-Peer Network (P2P)	(ix). Internal web-based network
J). Terminator	(x). Hardware devices on the network that is able to share resources and communicate or share files with other devices/nodes.
K). Transmission Control Protocol/Internet Protocol (TCP/IP)	(xi). Stores the address of every device on the network so it transfers the signals to the correct device on the network (not every device like a hub) so it is more efficient than a hub
L). Ethernet	(xii). Transfers signals/data packets from some devices to ALL devices connected to the hub simultaneously so it "clogs" data flow
M). Network Interface Card (NIC)	(xiii). Network Design showing how the computers, devices and transmission media are connected
N). Token Ring	(xiv). Interconnected group of computers or LANS connected over large distances by microwave, fibre-optic or satellite connections
O). Multitasking	(xv). Interconnected group of computers within a small area (business) using cables or wireless hubs and network cards

5. Explain the difference between a Mail Server and a Print Server (refer to IT APPLICATIONS, Page 87):

IT 3 APP	Due:	NETWORKS 2	Name:

1. For each network type, draw a diagram of its **Topology** (arrangement of PCs, File Server (if used) & devices (printer/scanner etc.)) & list its advantages & disadvantages (refer to IT APPLICATIONS, Page 91-93):

Type	Topology Diagram	Advantages	Disadvantages
STAR Network			
BUS Network (Also show a Terminator T at each end of the network line)			
RING Network or TOKEN RING Network			

2. What **two** types of network form a **Tree Network** (refer to IT APPLICATIONS, Page 92-93):

3. The **Intranet** is a type of Local Area Network that is similar to the Internet but is only accessible from INSIDE an organisation. List **four** benefits of the Intranet (refer to IT APPLICATIONS, Page 94):

a). b)

c). d).

4. There are several different methods of transferring data in a network called **Protocols**. Match the Protocol with the method by which the data is transferred (refer to IT APPLICATIONS, Page 95-98):

A). Ethernet 1000BaseLX,	(i). Wi-Fi (Wireless) transfers data up to 50m using 802.11b standard at 11	
100BaseTX, 10Base2	Mbps, 802.11g at 54 Mbps using 2.4 > 5 GHz radio frequency	
B). Token Ring	(ii). Internet Protocol to transfer data in small Packets to the recipient (using	
	many paths). Packet Switching breaks data into segments and	
	Sequencing reassembles the packets into the message. eg. 10.69.7.2	
C). Transmission Control	(iii). One Token travels the network as either busy (carrying data and	
Protocol / Internet	address) or empty (no data). Each node checks the Token for the	
Protocol (TCP/IP)	recipient's address and the correct node takes it & "frees" the Token.	
D). 802.11b, 802.11g,	(iv). Data Transfer Protocol using Frames (each with the recipient's address,	
802.11n	sender address, frame type, data, parity (error) check). 10Base2 for Bus	
1 character = 1 byte = 8 bits	networks at 10 Mbps up to 500m with co-axial cable, 100Base-T for a	
1 Mbps = 1000000 bits/sec	Star network at 100 Mbps up to 85m with twisted pair cable, 1000Base	
1 Mbps = 125000 bytes/sec	LX for Star network at 1000 Mbps=1 Gbps up to 2km with fibre optics.	

A). = ____. B). = ____. C). = ____. D). = ____.

IT	3 APP Due:			NETWORKS 3	Name:		
1.	Network Operating System (eg. Windows Server 2003 or Mac OS X Server) is made up of 2 components. Explain the function of the Server software & Client software (refer to IT APPLICATIONS, Page 98-99): (i). Server Software: (ii). Client Software:						
2.	Different Application software can be used for Communication on a network. Identify what type of information is transferred using each of the following software (refer to IT APPLICATIONS, Page 99): a). Electronic mail (email): b). File Transfer Protocol (FTP):						
	c). Videoconferen	cing:		d). Instant Mes	saging used in Cha	at rooms:	
3.	Link each of the fo	ollowing Netwo	ork terr	ns with their definition (refer t	to IT APPLICATIO	ONS, Page 100-104):	
	A). Network Into (NIC)	erface Card	(i).	Sends and receives data using Mbps	g cable television n	network at up to 5	
	B). Wireless Acc (AP)	cess Point	(ii).	Transfers PC data in digital b Mbps. Binary data & analog		-	
	C). Hot Spot		(iii).	Converts digital (0s,1s) PC do lines at up to 56 kbps. The re	ata to analog sound	d for transfer in phone	
	D). Hub		(iv).	Connects several separate rer			
	E). Switch		(v).	Sends incoming signal only t all Ethernet (MAC) addresses		equired address since	
	F). Router		(vi).	Sends incoming signal to all device receives it since no Et	, ,	•	
	G). Dial-up (Analog) Modem			(vii). Location where wireless device detects & connect to a network's AP			
	H). (A)DSL or ISDN Modem			Connects wireless devices (Po	· · · · · · · · · · · · · · · · · · ·		
I). Cable Modem (ix). Card in a computer to connect in			et it to the wireless	or cabled network			
	A). = B). = _	C). =	D).	= E). = F). =	G). = H).	= I). =	
4.	Transmission Me provide (refer to I)			rial used to transfer data between 2age 104-108):	een network device	es. For each type,	
	a). the distance of		Ź	b). the maximum t	ransfer speed		
	(i). Twisted Pair (8 wires twiste	d into 4	pairs) cable:	a).	b).	
	(ii). Coaxial (Inne	r wire insulate	d from	outer mesh wire) cable:	a).	b).	
	(iii). Fibre-Optic	(glass transmit	ting da	ta as light pulses) cable:	a).	b).	
	_			at 2.4 GHz in line of sight:	a).	b).	
				o 3000 GHz in line of sight:	a).	b).	
5.	Link the following	Network Secu	ırity ter	rms with their definition (refer	to IT APPLICAT	IONS, Page 108-110):	
	A). Physical Security	stored o Private	n sende Key on	nto scrambled code using Enc er & recipient's PC) or Asymn sender PC) or WEP (Wired E	netrical (Public Ko Equivalent Privacy)	ey on recipient PC & for wireless network	
	B). Usernames Passwords	(show p	opup a te & jaı	rase/quarantine Spyware (send dvertisements), Trojan horse m email servers) and Viruses ((viruses inside pro (show messages or	grams), Worms alter/delete files)	
	C). Firewall	` ′		NIC (1 accepts outside data, se		•	
	D). Malware			which then sends it to the othe thorised user & password shou			
	Protection	` '		sily guessed & changed every		incicio iong (digito &	
	E). Encryption	(v). Locks (key, tou	uchpad or Biometric - eye, vo	ice, finger scan) &	doors/windows alarm	

A). = ___. B). = ___. C). = ___. D). = __. E). = __.

IT	3 APP	Due:	NETWORKS 4	Name:			
1.	and the Physi	cal Design which ma	ps out the actual position of each	the structure of the network is considered device on the network. For each of the to IT APPLICATIONS, Page 111):			
	a). Ability to	fulfil required functio	ns:				
	b). Application	ons (software):					
	c). Cost:						
	d). Security:						
	e). LAN Proto	ocol:					
	f). Access to Information & Resources:						
	g). Expansion Potential:						
	h). Compatibility of Components:						
2.	There is an example of a Physical Design on Page 112. Use the diagram to answer the following questions:						
	a). Name each(i).	n of the seven Servers (ii).	s in the network: (iii).	(iv).			
	(1).	(11).	(111).	(11).			
	(v).	(vi).	(vii).				
	b). What type of device is used to connect many PCs to the network?						
	c). What type of device is used to connect many PCs to the Internet using an ISDN connection?						
	d). What security device is used to prevent hackers on the Internet accessing data on the network?						
	e). What netw	ork Topology is used	1?				
	f). How does	the Remote staff com	puter access the network?				

g). What transmission media should be used if the longest cable run is less than 85 m in length? _____

Item	Description					
A). Encryption softwa	•		roid working on the wrong files			
B). Virus Detection			files should be stored and how to nam			
software	\ /		paces, date, length and relevant name			
C). Access Hierarchy	(iii). Used to	o regularly create a copy of all	/some files at another location			
D). Backups			ss privileges. eg. https for secure page			
E). File Naming	` /		s signatures in files and deletes the			
conventions F). Version Control		r quarantines the files	data into scrambled code before			
1). Version control	` /	sent by sender and "key" used				
A). = B). =	C). = D). =	E). = F). =				
Explain the characteristic	cs of each type of	Backup (refer to IT APPLICA	ATIONS, Page 139-140, 245-247):			
a). Full Backup:						
•						
b). Differential Backup	:					
a) In an and al Da alam						
c). Incremental Backup):					
For each of the following	g data backup me	dia, research their Capacity (i	n MB or GB), Speed (fast, medium or			
		dia, research their Capacity (i bad) (refer to IT APPLICATIO				
slow to write/read) and I			n MB or GB), Speed (fast, medium or ONS, Page 235, 236 & 248): (iii). Reliability:			
slow to write/read) and I a). Hard Disk: (i). C	Reliability (good/	bad) (refer to IT APPLICATION	ONS, Page 235, 236 & 248):			
a). Hard Disk: (i). Color. b). DVD-RW: (i). Color.	Reliability (good/apacity:	(ii). Speed:	ONS, Page 235, 236 & 248): (iii). Reliability:			
slow to write/read) and II a). Hard Disk: (i). C b). DVD-RW: (i). C c). Tape Drive: (i). C	Reliability (good/ apacity: apacity: apacity:	(ii). Speed: (ii). Speed: (ii). Speed:	ONS, Page 235, 236 & 248): (iii). Reliability: (iii). Reliability:			
slow to write/read) and I a). Hard Disk: (i). C b). DVD-RW: (i). C c). Tape Drive: (i). C Answer True or False to	Reliability (good/ apacity: apacity: apacity: o each of the follo	(ii). Speed: (ii). Speed: (ii). Speed: (ii). Speed: (iii). Speed:	ONS, Page 235, 236 & 248): (iii). Reliability: (iii). Reliability: (iii). Reliability: o IT APPLICATIONS, Page 245-249)			
slow to write/read) and I a). Hard Disk: (i). Co b). DVD-RW: (i). Co c). Tape Drive: (i). Co Answer True or False to a). Backups should only	Reliability (good/ apacity: apacity: apacity: o each of the follo be done at the sta	(ii). Speed: (ii). Speed: (ii). Speed: (ii). Speed: wing Backup features (refer to art of each working day:	ONS, Page 235, 236 & 248): (iii). Reliability: (iii). Reliability: (iii). Reliability: o IT APPLICATIONS, Page 245-249			
slow to write/read) and I a). Hard Disk: (i). C b). DVD-RW: (i). C c). Tape Drive: (i). C Answer True or False to a). Backups should only b). Backups should be do	Reliability (good/ apacity: apacity: apacity: o each of the follo be done at the sta	(ii). Speed: (ii). Speed: (ii). Speed: (ii). Speed: wwing Backup features (refer to art of each working day: us day's/week's backup disk/ta	ONS, Page 235, 236 & 248): (iii). Reliability: (iii). Reliability: (iii). Reliability: o IT APPLICATIONS, Page 245-249			
slow to write/read) and I a). Hard Disk: (i). C b). DVD-RW: (i). C c). Tape Drive: (i). C Answer True or False to a). Backups should only b). Backups should be do c). The first Full Backup	Reliability (good/apacity: apacity: apacity: o each of the follo be done at the state one on the previous should be done a	(ii). Speed: (ii). Speed: (ii). Speed: (ii). Speed: wing Backup features (refer to art of each working day: us day's/week's backup disk/tafter an Incremental Backup:	ONS, Page 235, 236 & 248): (iii). Reliability: (iii). Reliability: (iii). Reliability: o IT APPLICATIONS, Page 245-249) ape:			
slow to write/read) and I a). Hard Disk: (i). C b). DVD-RW: (i). C c). Tape Drive: (i). C Answer True or False to a). Backups should only b). Backups should be do c). The first Full Backup d). Backup files should be	Reliability (good/ apacity: apacity: apacity: o each of the follo be done at the sta one on the previous should be done a	(ii). Speed: (ii). Speed: (ii). Speed: (ii). Speed: wing Backup features (refer to art of each working day: us day's/week's backup disk/tafter an Incremental Backup: eir contents and date:	ONS, Page 235, 236 & 248): (iii). Reliability: (iii). Reliability: (iii). Reliability: o IT APPLICATIONS, Page 245-249) ape:			
slow to write/read) and I a). Hard Disk: (i). C b). DVD-RW: (i). C c). Tape Drive: (i). C Answer True or False to a). Backups should only b). Backups should be do c). The first Full Backup d). Backup files should be e). Backups should be st	Reliability (good/apacity: apacity: apa	(ii). Speed: (ii). Speed: (ii). Speed: (ii). Speed: owing Backup features (refer to art of each working day: us day's/week's backup disk/tafter an Incremental Backup: or contents and date: un a fire-proof lockable cupboa	ONS, Page 235, 236 & 248): (iii). Reliability: (iii). Reliability: (iii). Reliability: o IT APPLICATIONS, Page 245-249) ape: ard to avoid damage:			
slow to write/read) and I a). Hard Disk: (i). C b). DVD-RW: (i). C c). Tape Drive: (i). C Answer True or False to a). Backups should only b). Backups should be do c). The first Full Backup d). Backup files should be e). Backups should be st f). Weekly Backups should	Reliability (good/ apacity: apacity: apacity: o each of the follo be done at the sta one on the previous should be done a be named with the ored off site and it ald only replace a	(ii). Speed: (ii). Speed: (ii). Speed: (ii). Speed: wing Backup features (refer to art of each working day: us day's/week's backup disk/tafter an Incremental Backup: eir contents and date: n a fire-proof lockable cupboal backup from 2 weeks or more	ONS, Page 235, 236 & 248): (iii). Reliability: (iii). Reliability: (iii). Reliability: o IT APPLICATIONS, Page 245-249) ape: ard to avoid damage: e ago:			
slow to write/read) and I a). Hard Disk: (i). C b). DVD-RW: (i). C c). Tape Drive: (i). C Answer True or False to a). Backups should only b). Backups should be do c). The first Full Backup d). Backup files should be e). Backups should be st f). Weekly Backups should	Reliability (good/ apacity: apacity: apacity: o each of the follo be done at the sta one on the previous should be done a be named with the ored off site and it ald only replace a	(ii). Speed: (ii). Speed: (ii). Speed: (ii). Speed: owing Backup features (refer to art of each working day: us day's/week's backup disk/tafter an Incremental Backup: or contents and date: un a fire-proof lockable cupboa	ONS, Page 235, 236 & 248): (iii). Reliability: (iii). Reliability: (iii). Reliability: o IT APPLICATIONS, Page 245-249) ape: ard to avoid damage: e ago:			
a). Hard Disk: (i). C. b). DVD-RW: (i). C. c). Tape Drive: (i). C. Answer True or False to a). Backups should only b). Backups should be do c). The first Full Backup d). Backup files should be e). Backups should be st f). Weekly Backups should g). Data Restored from a	Reliability (good/apacity: apacity: apa	(ii). Speed: (ii). Speed: (ii). Speed: (ii). Speed: (iii). Speed: (iversity of each working day: (iversity of each working d	ONS, Page 235, 236 & 248): (iii). Reliability: (iii). Reliability: (iii). Reliability: o IT APPLICATIONS, Page 245-249) ape: ard to avoid damage: e ago:			
slow to write/read) and I a). Hard Disk: (i). C b). DVD-RW: (i). C c). Tape Drive: (i). C Answer True or False to a). Backups should only b). Backups should be do c). The first Full Backup d). Backup files should be e). Backups should be st f). Weekly Backups should g). Data Restored from a	Reliability (good/apacity: apacity: apa	(ii). Speed: (ii). Speed: (ii). Speed: (ii). Speed: (iii). Speed: (iversity of each working day: (iversity of each working d	ONS, Page 235, 236 & 248): (iii). Reliability: (iii). Reliability: (iii). Reliability: o IT APPLICATIONS, Page 245-249) ape: ard to avoid damage: e ago: e PC's hard drive: LICATIONS, Page 248-250):			
slow to write/read) and I a). Hard Disk: (i). C b). DVD-RW: (i). C c). Tape Drive: (i). C Answer True or False to a). Backups should only b). Backups should be do c). The first Full Backup d). Backup files should be e). Backups should be st f). Weekly Backups should g). Data Restored from a Explain the difference be	Reliability (good/apacity: apacity: apa	(ii). Speed: (ii). Speed: (ii). Speed: (ii). Speed: (iii). Speed: (iversity of each working day: (iversity of each working d	ONS, Page 235, 236 & 248): (iii). Reliability: (iii). Reliability: (iii). Reliability: o IT APPLICATIONS, Page 245-249) ape: ard to avoid damage: e ago: e PC's hard drive: LICATIONS, Page 248-250):			
slow to write/read) and I a). Hard Disk: (i). C b). DVD-RW: (i). C c). Tape Drive: (i). C Answer True or False to a). Backups should only b). Backups should be do c). The first Full Backup d). Backup files should be e). Backups should be st f). Weekly Backups should g). Data Restored from a Explain the difference be	Reliability (good/apacity: apacity: apa	(ii). Speed: (ii). Speed: (ii). Speed: (ii). Speed: (iii). Speed: (iversity of each working day: (iversity of each working d	ONS, Page 235, 236 & 248): (iii). Reliability: (iii). Reliability: (iii). Reliability: o IT APPLICATIONS, Page 245-249) ape: ard to avoid damage: e ago: e PC's hard drive: LICATIONS, Page 248-250):			

IT 3 APP Due: MANAGING FILES – DATA INTEGRITY Name:

IT	4 APP Due: <u>INFORMATION/ORGANISATION NEEDS</u> <u>Name:</u>
1.	Explain what a Strategic Plan is (refer to IT APPLICATIONS, Page 151):
2.	a). Explain the difference between a Goal , an Objective and a Mission Statement (refer to IT APPLICATIONS, Page 151-152 and 204):
	b). Identify the Goal, Objective, Policy (like a return policy) and Mission Statement in the following scenario:
	Tryit Co is a small business that prides themselves in providing high quality Toys at cheap prices. They wish to increase their market share of plastic toys by introducing new toys from overseas markets at low prices. If there are any faults with the toys we sell, we will replace them free of charge.
	Goal:
	Objective:
	Mission Statement:
	Policy:
3.	Link each of the following types of companies with their definition by writing in the letter code (refer to IT APPLICATIONS, Page 152):

Type of Organisation Description		
A). Profit-based). Businesses li	sted on the share market that can sell shares to the public
B). Not For Profit	i). Company tha	at has limited liability owned by members for mutual benefits
C). Government owned	ii). Companies v	with two or more people who pool their resources
D). Non Government	v). Non profit o	rganizations that employ paid volunteers – Salvation Army
E). Partnership	v). Organisation	s owned by the government – Telstra, Human Services
F). Proprietary Co.	vi). Organisation	s that assist the community not for profit – schools, police
G). Public Companies	vii). Businesses v	whose purpose is to make large profits

A). =	· B). =	: C). = _	D). = _	E). =	F). =	G). =	<u> </u>
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4. List three Organisational Goals and two System Goals of an organisation (refer to IT APPLICATIONS, Page 152-153 and 205):

Organisational Goals	System Goals
(i).	(i).
(ii).	(ii).
(iii).	

5. Explain the difference between **Improving Efficiency** and **Improving Effectiveness** (refer to IT APPLICATIONS, Page 153):

IT	4 APP	Due:	<u>ORGANISATION</u>	NAL PROBLEMS Name:
1.	Explain	each stage	of the Problem Solving Methodo	blogy (refer to IT APPLICATIONS, Page 160-161):
	a). Ana	lyse:		
	b). Desi	gn:		
	c). Deve	elop:		
	d). Test	:		
	e). Doci	ument:		
	f). Impl	lement:		
	g). Eval	luation:		
2.			roblems that exist in organisations or to IT APPLICATIONS, Page 16	occur for a number of reasons. Provide explanations of 1-162):
	a).			b).
	c).			
3.				of solutions to information problems in organisations. refer to IT APPLICATIONS, Page 164-167 and 189):
	a). Str	ucture Ch	art	b). Layout diagram
	c). IPO	O Chart		d). Flow Chart
4.			e steps that should be followed wh Page 168-169 and 193-195):	en evaluating software and include examples (refer to IT
	b).			
	•			
	c).			
	d).			
	e).			

IT 4 APP

USER DOCUMENTATION

Name:

1. Match the following types of User Documentation with their features (refer to IT APPLICATIONS, Page 175-180):

Type of Documentation	Features Description
A). On Screen User Documentation	(i). In a program, when the cursor is moved to the correct spot over a menu command or over an icon, a help box is shown.
B). User Guide / Instruction Manual	(ii). Includes Blogs (Web Logs of users messages), FAQ s (Frequently Asked Questions), Threads (forum messages) & Patches (software updates)
C). Quick Start Guide	(iii). Built-in or stand-alone to provide searchable keywords to display help
D). In-house User Documentation	(iv). Step-by-step instructions with videos or sounds demonstrations on how to use key features in a program
E). Read Me Files	(v). Text or hypertext files that contain information to users about system requirements, trouble-shooting hints
F). Tutorials	(vi). Written by staff for employees to learn how to use an information system such as accessing files, naming files, where to print to, email protocols
G). Help Files	(vii). Text or hypertext brief simple instructions on how to use the equipment with links to more detailed information in the Use Manual
H). Web Files	(viii). Text or file (pdf/hypertext) on CD detailed instructions on how to use the equipment and solve problems as well as system requirements
I). Tool Tips / Hint Boxes	(ix). Help files shown on screen to provide instructions how to access functions, follow the correct procedures and solve problems

A). = B). = C). = D). = E). = F). = G). = H). = I). =	A).=	. B). =	. C). =	. D). =	. E). =	. F). =	. G). =	. H). =	. I). =	
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- 2. Define the following **On Screen Information Design** terms (refer to IT APPLICATIONS, Page 180-184):
 - a). Proportion:
 - b). Orientation:
 - c). Clarity:
 - d). Consistency:
 - e). Colors & Contrast:
 - f). Whitespace:
- 3. Match the following Characteristics of **On-Screen Information Products** with examples (refer to IT APPLICATIONS, Page 184-188):

Type of Documentation	Features Description
A). Usability	(i). Information must be relevant and recognise and accept common typos
B). Font Selection	(ii). Information must be read in common software. eg. Adobe Acrobat (pdf
C). Accessibility	(iii). Information must be easy to locate (using many different procedures)
D). Software Accessibility	(iv). Serif (characters with "tails") are used to help guide the user's eyes
E). Appropriateness / Relevance	(v). The interface should be clearly laid out without too many buttons, flashing icons or colours and should be short in length

IT 4 APP Due: ORGANISATIONS' LEGAL OBLIGATIONS Name:

1. Match the following Privacy Acts with their features (refer to IT APPLICATIONS, Page 205-211)

	me of Act		of Info		y Provisions
	Privacy Amendment (Private Sector) Act 2000 At a National level - (private businesses)	(i). A	Art, Literature, Music, IV/Sound broadcasts, Drama, Films and Computer brograms		Deals with electronic & manual versions of individual's information stored by non-government or private organisations including the content of emails. Websites must display a privacy policy regarding the data gathered by the site and how it is used. This led to developing the 11 National Privacy Principles: * Personal information must be collected for a lawful purpose. * The information collector must disclose why the information has to be collected, that is needed by law and that it is lawful. * Collected information must be relevant, up-to-date, complete and its collection must not intrude upon the individual. * If information is wrong, errors can be amended. * Records must be stored & safeguarded against loss, unauthorised access, use, modification or disclosure. * Record-keepers must control records & make it clear what information is stored, its purpose & how people can access it. * Individuals are entitled to see their information. * Information must not be used unless it has been checked for accuracy, timeliness, completeness & relevance to purpose. * Information may not be kept unless it is relevant. * Information may not be used for any purpose except for the intended purpose. * Personal information may not be disclosed to anyone else without consent.
В).	Privacy Act 1988 At a National (federal and ACT – public sector) level	` /	Health nformation	2.	
C).	Information Privacy Act (IPA) 2000 At a State - Victoria level	i l	Personal nformation neld by the public sector	3.	Covers same areas as Privacy Act 1988 for Victoria using special versions of 10 of the National Privacy Principles but it allowed for the creation of a state privacy commissioner, provision of codes of practice relating to organisations or issues and strong compliance provisions. It does not cover Health information.
ŕ	Health Records Act 2001 At a State - Victoria level	i	Personal nformation		Designed to fit inside the IPA (2000) to protect patient's medical information covering the public and private medical sectors so their doctors can access their test reports etc (Primary purpose) and then a hospital (secondary purpose) but not a third party (insurance company or another hospital) without permission.
Е).	Copyright Act 1968 & Amendment (Digital Agenda) Act 2000 At a National level	I	Personal & Health nformation	5.	Protects Intellectual Property (thoughts, printed material, videos, broadcasts, songs/music, computer programs/games = "Copyright"). There were exceptions listed in the Copyright Exceptions conducted in 2005.

A. = <u>(v)</u> = <u>1</u>. B. = <u>____</u> = <u>___</u>. C. = <u>____</u> = <u>___</u>. D. = <u>____</u> = <u>___</u>. E. = <u>___</u> = <u>___</u>.

2. Explain the penalties for **Infringing Copyright** (refer to IT APPLICATIONS, Page 212-213):

IT 4 APP	Due:	THREATS TO INFORMATION SYSTEMS	Name:

1. Match the following descriptions of ethics in the use of Information systems in organisations to their areas (refer to IT APPLICATIONS, Page 213-218):

Ethic Area	Desc	ription
A). Workplace Responsibilities	(i).	Ensuring correct Netiquette such as posting to correct newsgroups, not advertising in newsgroups/blogs, not posting personal information & not Flaming the sender (criticise/insult the recipient of your email/blog)
B). Codes of Conduct	(ii).	Managers may monitor email, PC use, web use (viewing logs & the content of Cookies that store web favourites & user information) and keys being pressed to ensure the appropriate work is being done. However, some monitoring can be unethical (monitoring toilet breaks)
C). Computer Use Policy	(iii).	Document outlining what is permitted and not permitted to be done using a computer or peripheral equipment. eg. games during work
D). Employee Monitoring	(iv).	A set of conditions to ensure there is an appropriate working behaviour
E). Free Speech on the Internet	(v).	Employer to provide suitable environment & pay staff accordingly Employees to perform expected tasks and behave appropriately

2. Explain the difference between **Cracking** and **Hacking** and provide an example of each (refer to IT APPLICATIONS, Page 219-220):

3. Match the following descriptions of virii (virus) to their types (refer to IT APPLICATIONS, Page 219-220):

Ethic Area	Description
A). Boot Sector	(i). A virus hidden inside a file/program/emails to perform dangerous tasks
B). Executable (ii). A virus that reproduces itself many times to jam servers (emails)	
C). Macro (iii). A virus is triggered if a particular event occurs in a PC to delete/alter files.	
D). Time Bomb (iv). A virus is triggered at a particular time to delete/alter files/data	
E). Logic Bomb (v). A virus within a Microsoft Office file alters commands/functions or data	
F). Worm (vi). The virus runs before the program (.exe or .com) is loaded	
G). Trojan Horse (vii). A virus loaded into main memory & may destroy boot record of disks	
	connected or file allocation table listing all files so PC can't boot

4. Explain the characteristics of each of the following threat (refer to IT APPLICATIONS, Page 222-226):

a). Tampering with Files:	b). Information Theft:
c). Hardware Vandalism:	d). Hardware Theft:
e). User Error:	f). Not following File Management procedures:
g). Equipment Failure/Damage:	d). Consequences of violating security measures:

IT	4 APP Due:	SECURITY EQUIPMENT 1 Name:				
1. Match the following types of Biometrics (Human physical feature security types) to their meanings (IT APPLICATIONS, Page 231-232):						
Type of Biometrics Description						
**		(i). Compares 247 points in the person's iris to a prescanned version				
	B). Fingerprint Recognition	(ii). Compares 80 points on the person's face (distance between eyes, chinline and eye socket depth) to a prescanned version				
	C). Hand Geometry	(iii). Compares the person's signature to a prescanned version				
	D). Signature Verification	(iv). Compares the person's hand size and layout to a prescanned version				
	E). Facial Recognition	(v). Compares a person's fingerprints to a stored version to a resolution of 500 dpi				
	F). Iris Recognition	(vi). Compares a person's voice with their stored voice pattern				
2.	A). = B). = C). = D). = E). = Explain the following Physical Security Measures (refer to IT APPLICATIONS, Page 232-233): a). Swipe Cards: b). Smart Cards:					
c). Security Tokens: d). Power Protection:						
	e). Avoiding System Fail	lure:				
3.	Explain the difference bet APPLICATIONS, Page 2	tween a Surge Protector and Uninterruptible Power Supply (refer to IT 233-234):				
4.	Explain the purpose of a l	RAID array (refer to IT APPLICATIONS, Page 234):				

5. For each type of media listed below provide the number of examples listed in the brackets (refer to IT APPLICATIONS, Page 235-236):

a). Magnetic Media (3):

(i). (ii). (iii).

b). Optical Drives (2):

(i). (ii).

c). Solid State Devices (1):

(i).

6. What is the term given for a backup to a secure and power protected Remote Server via the Internet using a **Storage Area Network (SAN)** system, RAID array, DVD, etc (refer to IT APPLICATIONS, Page 236):

<u>IT</u>	4 APP Due:	SECURITY EQUIPMENT 2 Name:
1.	Explain each of the following	ing types of Surveillance (refer to IT APPLICATIONS, Page 237-239):
	a). Packet Sniffers:	b). Desktop Monitoring Systems:
	c). Log Files:	d). Closed-Circuit TV:
	e). Telephones:	f). Audit Trails:
2.	List two examples of Phys	ical Security Devices (refer to IT APPLICATIONS, Page 239):
	a).	b).
3.	Match the following software based security methods to their characteristics (refer to IT APPLICATIONS, Page 239-242):	
	Type of Security	Description
	A). Encryption Software	(i). Software to delete/quarantine viruses by locating virus signatures
	B). Network Policies C). Firewalls	(ii). Hardware / Software to control user's access & viruses using the Internet(iii). User has specific username and password to log onto the network
	D). Anti-Virus software	(iv). Sender's Public key encrypts data using Transposition (mix letters),
	b). Anti viids software	Substitution (use other letters), Expansion (add extra letters), Compaction (remove letters). Receiver's Private key then decrypts data
	A). = B). = C)	. = D). =
4.		ing procedures that should be followed to effectively communicate, store and APPLICATIONS, Page 243-249):
	a). Communication:	
	b). Storage:	
	c). File-Naming Conventi	ons & Location of Files:
	d). Backups:	

e). Disposal: