

ANSWER SHEET 1A

Name			
IC No		Form:	
Question No.	Candidate's Answer		Marks
1.	Data / information		1
2.	i)	S	2
	ii)	R	3
	iii)	Q	4
3.	B		5
4.	B		6
5.	i)	True/Benar	7
	ii)	False/Palsu	8
	iii)	True/Benar	9
	iv)	True/Benar	10
6.	i)	J	11
	ii)	K	12
	iii)	M	13
7.	i)	Translator	14
	ii)	Compiler	15
8.	B		16
9.	A		17
10.	D		18
11.	C		19
12.	Copyright		20
13.	Menu Drven		21
14.	Project Manager		22
15.	Logical		23
16.	i)	False/Palsu	24
	ii)	True/Benar	25
17	i)	D	26
	ii)	E	27
18.	B		28
19.	B		29
20.	D		30
21.	A		31
22.	i)	Server	32
	ii)	Clients	33
23.	Search		34
24.	Extranet		35
25.	Program		36
TOTAL MARKS			

SECTION)B

Question Number	Answer	Marks																								
26 a)	<ul style="list-style-type: none"> • Dreemweaver • FrontPage • Notepad • PSPad 	2																								
26 b)	<ul style="list-style-type: none"> • WYSIWYG web editors provide an editing interface that shows how the pages will be displayed in a web browser. • Using a WYSIWYG editor does not require any HTML knowledge. • It is easier for an average computer user. 	2																								
27 a)	<ul style="list-style-type: none"> • Retinal scanning • Voice Recognition • Fingerprint Recognition • Facial Recognition • hand geometry scanning • Iris scanning 	2																								
27 b)	<ul style="list-style-type: none"> • High in security • Difficult to penetrate. 																									
28 a)	<p>i) MAN ii) WAN</p>	2																								
28 b)	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>CRITERIA</th> <th>LAN</th> <th>MAN</th> <th>WAN</th> </tr> </thead> <tbody> <tr> <td>Cost</td> <td>Low</td> <td>High</td> <td>Higher</td> </tr> <tr> <td>Network Size</td> <td>Small</td> <td>Larger</td> <td>Largest</td> </tr> <tr> <td>Speed</td> <td>Fastest</td> <td>Slower</td> <td>Slowest</td> </tr> <tr> <td>Transmission media type</td> <td>Twisted-pair</td> <td>Twisted-pair and fibre-optic cables</td> <td>Fiber optic, radio wave and sattelite</td> </tr> <tr> <td>Number of computers</td> <td>Smallest</td> <td>Large</td> <td>Largest</td> </tr> </tbody> </table>	CRITERIA	LAN	MAN	WAN	Cost	Low	High	Higher	Network Size	Small	Larger	Largest	Speed	Fastest	Slower	Slowest	Transmission media type	Twisted-pair	Twisted-pair and fibre-optic cables	Fiber optic, radio wave and sattelite	Number of computers	Smallest	Large	Largest	2
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29 a)	<p>M : Problem Analysis Phase N : Coding Phase</p>	2																								

29 b)	<p>Documentation Phase</p> <ul style="list-style-type: none"> • the written material generated throughout all the phases of program development. • includes the detailed problem definition, the program plan (flow chart or pseudo code), comments within the source program and testing procedures. • a detailed description of the program, clear layouts of input and output records and a program listing. • enables new programmers to learn about existing programs much easily and quickly. 	2				
30 a)	Programming language is a set of words, symbols and codes that enables humans to communicate with computers.	2				
30 b)	High-level programming language is a programming language that is more abstract, easier to use, and more portable across platforms.	2				
31 a)	Database is structured collection of information on specific subjects.	2				
31 b)	<ul style="list-style-type: none"> • Database Management System (DBMS) • Oracle, SQL Server and Microsoft Access 	2				
31 c)	<table border="1"> <thead> <tr> <th data-bbox="411 1227 842 1261">Primary Key</th> <th data-bbox="842 1227 1279 1261">Foreign Key</th> </tr> </thead> <tbody> <tr> <td data-bbox="411 1261 842 1330">Primary keys must have unique values</td> <td data-bbox="842 1261 1279 1330">foreign keys may have duplicate values</td> </tr> </tbody> </table>	Primary Key	Foreign Key	Primary keys must have unique values	foreign keys may have duplicate values	4
Primary Key	Foreign Key					
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32 a)	X = Network Card , Y = Hub/Switch/Router	2				
32 b)	<p>Function of X is provides connection between the computer and the network's communications media OR supplies the basic addressing system used to get data from PC to PC across a network.</p> <p>Function of Y is control the flow of data on a network.</p>	4				

33 a)

Using more than one media / various media. The usage of text , audio, graphic, video and animation

33 b)

Web-based	CD-based
<ul style="list-style-type: none">• limited in picture size and low resolution video	<ul style="list-style-type: none">• can store high end multimedia elements such as video
<ul style="list-style-type: none">• can be changed, damaged or deleted by irresponsible individuals	<ul style="list-style-type: none">• can be permanently stored and are not changeable
<ul style="list-style-type: none">• information for multimedia can be updated easily and is cheaper	<ul style="list-style-type: none">• information on a multimedia can be quickly outdated

33 c)

i) CD Base or Web base

ii) If student choose CD Base

- Can store high end multimedia element such as video
- Can be permanently store and are not changeable

Or

ii) If student choose Web Base

- Can be update easily and cheaper
- No need to bring the resource because it is upload at the server
- Can access at anywhere , any time and any place

Skema tambahan untuk soal 27

1 mark for 1 authentication method

1 mark for 1 explanation

Full mark = 4

Fingerprint Recognition

In order to prevent fake fingers from being used, many biometrics fingerprint systems also measure blood flow, or check for correctly arrayed ridges at the edges of the fingers.

Facial Recognition

Facial recognition analyses the characteristics of an individual's face images captured through a digital video camera. Facial recognition is widely used, touted as a fantastic system for recognising potential threats (whether terrorists, scam artists, or known criminals).

Hand Geometry Scanning

Hand scanning involves the measurement and analysis of the shape of one's hand.

Unlike fingerprints, the human hand isn't unique. Individual hand features are not descriptive enough for identification.

It is possible to devise a method by combining various individual features and measurements of fingers and hands for verification purposes.

Iris Scanning

Iris scanning analyses the features that exist in the coloured tissues surrounding the pupil which has more than 200 points that can be used for comparison, including rings, furrows and freckles.

The scans use a regular video camera and can be done from further away than a retinal scan. It will work perfectly fine through glasses and in fact has the ability to create an accurate enough measurement that it can be used for identification purposes.

The accuracy of this method is excellent while the cost involved is high.

Retinal Scanning

Retinal biometrics involves the scanning of retina and analysing the layer of blood vessels at the back of the eye.

Retinal scanning involves using a low-intensity light source and an optical coupler and can read the patterns at a great level of accuracy.

Retina scanning requires the user to remove glasses, place their eye close to the device, and focus on a certain point. Whether the accuracy can outweigh the public discomfort is yet to be seen.

The accuracy in retinal scanning is very good and the cost involved is fair.

Voice Recognition

Voice recognition system compares a person's live speech with their stored voice pattern.

Voice recognition biometrics requires user to speak into a microphone. What he speaks can be his password or an access phrase.

Verification time is approximately 5 seconds. To prevent recorded voice

use, most voice recognition devices require the high and low frequencies of the sound to match, which is difficult for many recording instruments to recreate well. Also, some devices generate random number of sequences for verification.

The accuracy in voice recognition is fair and the cost involved is very reasonable.

Signature Verification System

Signature verification system uses special pen and tablet. After pre-processing the signature, several features are extracted.

The authenticity of a writer is determined by comparing an input signature to a stored reference set (template) consisting of three signatures.

The similarity between an input signature and the reference set is computed using string matching and the similarity value is compared to a threshold.

The accuracy in signature verification system is fair and the cost involved is excellent.