



PEJABAT PELAJARAN WP PUTRAJAYA
WP PUTRAJAYA

**PEPERIKSAAN PERCUBAAN
SIJIL PELAJARAN MALAYSIA
SEPTEMBER/OKTOBER
TAHUN 2009**

Two Hour and Thirty Minutes
Dua Jam Tiga Puluh Minit

INFORMATION AND COMMUNICATION
TECHNOLOGY
PAPER 1

3765/1

SKEMA JAWAPAN

Kertas soalan ini mengandungi 7 halaman bercetak.

SECTION A

<i>Question No.</i>	<i>Candidate's Answer</i>	<i>Score</i>
1.	C	1
2.	C	2
3.	(i) D	3
	(ii) A	4
	(iii) C	5
4.	B	6
5.	C	7
6.	RAM	8
7.	B	9
8.	(i) Control unit	10
	(ii) Arithmetic Logic Unit	11
9.	Switch / hub	12
10.	C	13
11.	(i) Computer Server / Server	14
	(ii) Star topology	15
12.	Design phase	16
13.	(i) B	17
	(ii) D	18
14.	(i) Non-linear interactivity	19
	(ii) Alignment	20
15.	Programming language	21
16.	Operator	22
17.	Sequence Control Structure	23
18.	True	24
19.	Variable	25
20.	Compiler	26
21.	(i) Integer	27
	(ii) String	28
	(iii) Double	29
22.	Procedures	30
23.	(i) False	31
	(ii) True	32
24.	(i) Update or Insert or Delete (either one)	33
	(ii) Book ID	34
25.	(i) Field	35
	(ii) Records	36

SECTION B

QS	ANSWERS	MARK																														
26																																
(i)	Virus	1																														
	Antivirus Software	1																														
(ii)	Hack/Hacking/Hacker	1																														
	Install firewall	1																														
27																																
(i)	<table border="1"> <thead> <tr> <th>characteristic</th> <th>Primary storage</th> <th>Secondary storage</th> </tr> </thead> <tbody> <tr> <td><u>volatile</u></td> <td>volatile when the power is off (ROM excluded), all contents of RAM are lost.</td> <td>non-volatile and almost permanent</td> </tr> <tr> <td><u>Access time.</u></td> <td>It takes lesser time (few nanoseconds) for the CPU to access RAM</td> <td>It takes more time (several milliseconds) for CPU to access secondary storage</td> </tr> <tr> <td><u>Cost.</u></td> <td colspan="2">Secondary storage is cheaper than RAM in terms of cost per unit of data.</td> </tr> </tbody> </table> <p>OR</p> <table border="1"> <thead> <tr> <th></th> <th>Primary storages</th> <th>Secondary storage</th> </tr> </thead> <tbody> <tr> <td>Capacity</td> <td>Small</td> <td>Large</td> </tr> <tr> <td>Access speed</td> <td>Fast</td> <td>Medium</td> </tr> <tr> <td>Cost per MB</td> <td>Expensive</td> <td>Cheap</td> </tr> <tr> <td>Portability</td> <td>Fixed</td> <td>Portable</td> </tr> <tr> <td>Need</td> <td>Compulsory</td> <td>Alternative</td> </tr> </tbody> </table> <p>OR</p> <p>Primary storage is known as the main memory of a computer. It is an internal memory (inside the CPU) that can be accessed directly by the processor.</p> <p>Secondary storage medium will allow her to store the information and retrieve it for future use. Data and programs in secondary storage do not disappear when the power is turned off..</p>	characteristic	Primary storage	Secondary storage	<u>volatile</u>	volatile when the power is off (ROM excluded), all contents of RAM are lost.	non-volatile and almost permanent	<u>Access time.</u>	It takes lesser time (few nanoseconds) for the CPU to access RAM	It takes more time (several milliseconds) for CPU to access secondary storage	<u>Cost.</u>	Secondary storage is cheaper than RAM in terms of cost per unit of data.			Primary storages	Secondary storage	Capacity	Small	Large	Access speed	Fast	Medium	Cost per MB	Expensive	Cheap	Portability	Fixed	Portable	Need	Compulsory	Alternative	2
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Comment [m1]: Any two differences. Make sure the students are able to show the contrast to be awarded with 1 mark.

(ii)	ROM – Read Only Memory Functions : i) ROM in its strictest sense can only be read from ii) all ROMs allow data to be written into them at least once, either during initial manufacturing or during a step called "programming" iii) Some ROMs can be erased and re-programmed multiple times	1 1						
28								
(i)	An Intranet (intra means within) is an internal network that uses Internet technologies and it is a small version of the Internet that exists within an organisation. OR An intranet is a private computer network that uses Internet protocols, network connectivity and possibly the public telecommunication system to securely share part of an organisation's information or operation with its employees.	2						
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29								
(i)	Z is a Publishing phase. Z is the last phase in multimedia production. We have two options of mediums used in delivering multimedia contents.	1 1						

(ii)	- Web-based multimedia - CD-based	1 1	
30			
(i)	Two uses of the information (i) can send a birthday card via post to your friends. (ii) can wish happy birth to your friend and sent a surprise present to their house according to the address.	2	
(ii)	Two problems that may arised (i) any user can easily retrieved the data and send black mail. (ii) no more privacy about your friend personal data, you friend will not trusted you any more.	2	

SECTION C

QS	Answer	Marks
31		
(i)		2 (complete with at least 2 examples for each elements)
(ii)	cd, dvd, thumbdrive, pendrive, flash memory, external hdd	1 Comment [m2]: Secondary storage : other than the one in the figure.
(iii)	CPU/Processor – utilises the computer memory to accomplish tasks. - execute instructions from the application software and accomplish a task. - controls all activities within the computer system	2
(iv)	The functions of OS: (i) controls and allocates memory Explanation. - set up memory boundaries for types of software and for individual applications. (ii) prioritize system requests Explanation. - allows the application to begin running, suspending the execution only long enough to deal with interrupts and user input. Interrupts are special signals sent by hardware or software to the CPU. (iii) controls input and output devices (iv) facilitate networking and manage file systems.	2
32		
(i)	- The position of the text on the screen - Length of the message - And legibility of the text.	1 1 1

(ii)	<ul style="list-style-type: none"> ○ Analog audio refers to the original sound signal. ○ Digital audio refers to the digital sampling of the actual sound. <p>OR</p> <ul style="list-style-type: none"> ○ The sound used in multimedia is digital audio. ○ We can record analog audio file. ○ We can use special audio editors like Sound Forge to convert analog audio files into digital audio files. 	2																				
(iii)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Bitmaps</th> <th style="width: 50%; text-align: center;">Vector</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">- paint graphics</td> <td style="padding: 5px;">- draw graphics</td> </tr> <tr> <td style="padding: 5px;">- Bitmap images are real images that can be captured from devices such as cameras or scanners</td> <td style="padding: 5px;">- Vector graphics are draw on the computer and only required a small amount of memory</td> </tr> </tbody> </table>	Bitmaps	Vector	- paint graphics	- draw graphics	- Bitmap images are real images that can be captured from devices such as cameras or scanners	- Vector graphics are draw on the computer and only required a small amount of memory	1 1														
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(i)	<p>Cocu.</p> <p>To view the grade of ccurriculum activities for each student, we have to use Cocu field so that you can know the cocurriculum grade. If we used Position field, we cannot know the the grade is for which cocurriculum activities.</p>	1 1																				
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(iii)	<p>Implementation Phase.</p> <p>In system development, the activities involved are develop program using database software.</p>	1 1																				