



JABATAN PELAJARAN NEGERI SEMBILAN

**PEPERIKSAAN PERCUBAAN SETARA
SIJIL PELAJARAN MALAYSIA 2016
INFORMATION AND COMMUNICATION TECHNOLOGY**

3765/1

Kertas 1

Ogos

2½ jam

Dua jam tiga puluh minit

SKEMA JAWAPAN

NO KAD PENGENALAN												
ANGKA GILIRAN												
		Answer Sheet Helaian Jawapan										
Question No. <i>No. Soalan</i>	Candidate's Answer <i>Jawapan Calon</i>										Marks <i>Markah</i>	
1.		C										1
2.		Verification										2
3.	(i)	X : Keyword Blocking										3
	(ii)	Y : Site Blocking										4
4.	(i)	A: Video Camera Digital										5
	(ii)	Record full motion and store captured motion images digitally										6
5.		D										7
6.	(i)	P: ROM										8
	(ii)	RAM										9
7.	(i)	C										10
	(ii)	B										11
8.	(i)	Net A : Peer to Peer										12
	(ii)	Net B : Client - Server										13
9.		A										14
10.	(i)	Coaxial cable										15
	(ii)	Fiber optic										16
11.		C										17
12.	(i)	C										18
	(ii)	B										19
13.		B										20
14.		Animation										21
15.		Programming language										22
16.	(i)	P										23
	(ii)	R										24
17.		Testing and Debugging										25
18.	(i)	Boolean										26
	(ii)	Double										27
19.		C										28
20.		Process										29
21.		False										30
22.	(i)	Data										31
	(ii)	Information System										32
23.		Foreign Key										33
24.		D										34
25.	(i)	Documentation										35
	(ii)	Testing										36

Section B

Bahagian B

[20 marks]

[20 markah]

This section consists of **five** questions. Answer **all** questions.

Bahagian ini mengandungi lima soalan. Jawab semua soalan.

26	(a)	A : Ciphertext B : Decrypt / <i>Decryption</i>	[2 marks] [2 markah]
	(b)	Process X is a process of Cryptography. Cryptography is a process of <u>hiding information</u> by <u>altering the actual information</u> into <u>different representation</u> . <u>Encryption</u> is a process to <u>convert plaintext</u> into <u>ciphertext</u> . Then <u>ciphertext</u> will <u>convert to plaintext</u> after <u>decryption process executed</u> .	[1 mark] [1 markah] [1 mark] [1 markah]
27	(a)	(i) The package that will be choose by Encik Jasni is <u>Package B</u> . (ii) Justification : The <u>clock speed</u> of processor is <u>2.6 GHz</u> . This processor <u>can process the data and instruction faster</u> than Package A.	[1 mark] [1 markah] [1 mark] [1 markah]
	(b)	Formula to show how the CPU process the data and instruction in per second is : <u>1 hertz = 1 cycle per second</u> <u>1 Hz = $\frac{1 \text{ cycle}}{1 \text{ second}}$</u> Or <u>1 MHz = $\frac{1\ 000\ 000 \text{ cycle}}{1 \text{ second}}$</u> Or <u>1 GHz = $\frac{1\ 000\ 000\ 000 \text{ cycle}}{1 \text{ second}}$</u> Or any relevant answer given by student based on package A or B	[2 marks] [2 markah]

28	(a)	<p>Process X : setting an IP address, Subnet mask and Gateway</p> <p>Process Y : ping the IP address for network connection between two computers / nodes.</p>	<p>[2 marks] [2 markah]</p>
	(b)	<p>The result of Process Y shows the failure of network connection because <u>the first three network ID</u> in Figure 13(a) <u>192.168.0.100</u> is <u>different with the first three network ID</u> in Figure 13(b) <u>192.168.3.125</u>. So in order to <u>successfully connection between two nodes</u>, they must <u>use same TCP/IP protocol</u>.</p>	<p>[2 marks] [2 markah]</p>
29	(a)	<p>Medium of delivery used by multimedia developer is <u>CD based</u>.</p> <p>Justify: <u>Because the product multimedia store on CD</u>.</p>	<p>[2 marks] [2 markah]</p>
	(b)	<p>Two advantages of using a medium of delivery CD based are :</p> <p>(i) Developer can store high resolution pictures/images/graphics and video (high end) on CD.</p> <p>(ii) User can access information faster and easily.</p>	<p>[2 marks] [2 markah]</p>
30	(a)	<p>Constant : P</p> <p>Variable : r/s/t – choose one</p>	<p>[2 marks] [2 markah]</p>
	(b)	<p>Statement that used to declare ‘Amount’ is <u>Dim r as Double</u>.</p> <p>Justification: Because samples data used in Set 1 and Set 2 show value of Amount have fractional part / decimal numbers.</p>	<p>[2 marks] [2 markah]</p>

Section C***Bahagian C***

[14 marks]

[14 markah]

This section consists of **three** questions. Answer **two** questions.

Bahagian ini mengandungi tiga soalan. Jawab dua soalan sahaja iaitu:

a. Question 31, AND*Soalan 31, DAN***b. Question 32 OR Question 33***Soalan 32 ATAU Soalan 33*

31	(a)	<p>(i) The network topology which is suitable to set up the network is <u>star topology</u>.</p> <p>(ii) Justify : because the switch is a main / important medium device used and it is easy to set up all nodes using star topology.</p>	<p>[1 mark] [1 markah]</p> <p>[2 marks] [2 markah]</p>
	(b)	<p>Sketch the network architecture for SPBT room.</p> <p>Criteria for given marks : Each criteria carry 1 mark.</p> <p>(i) Star topology and client – server network architecture.</p> <p>(ii) Server and 5 pcs connected to switch.</p> <p>(iii) Printer whether connected to server or switch.</p> <p>(iv) Label the Switch , UTP cables, Server, 5 pcs and Printer</p>	<p>[4 marks] [4 markah]</p>
32	(a)	<p>Primary key for each table :</p> <p>Employee Table : Employee _ID</p> <p>Leave Table : ID_Leave</p>	<p>[2 marks] [2 markah]</p>

	(b)	<table border="1" data-bbox="403 210 1458 562"> <tr> <td>Field :</td> <td>Employee_ID</td> <td><i>Name</i></td> <td>ID_Leave</td> <td>Type_of_Leave</td> </tr> <tr> <td>Table:</td> <td><i>Employee</i></td> <td>Employee</td> <td><i>Leave</i></td> <td>Leave</td> </tr> <tr> <td>Sort :</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Show :</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Criteria :</td> <td colspan="4"><i>“ E098345 ”</i></td> </tr> <tr> <td>Or :</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p data-bbox="373 618 715 651">Each answer carry 1 mark</p> <p data-bbox="373 674 772 707">Total : [4 marks] / [4 markah]</p>	Field :	Employee_ID	<i>Name</i>	ID_Leave	Type_of_Leave	Table:	<i>Employee</i>	Employee	<i>Leave</i>	Leave	Sort :					Show :	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Criteria :	<i>“ E098345 ”</i>				Or :				
Field :	Employee_ID	<i>Name</i>	ID_Leave	Type_of_Leave																												
Table:	<i>Employee</i>	Employee	<i>Leave</i>	Leave																												
Sort :																																
Show :	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																												
Criteria :	<i>“ E098345 ”</i>																															
Or :																																
	(c)	<p data-bbox="373 786 1150 819">Draw a line to show the relationship between the two tables.</p> <div data-bbox="373 891 1134 1211"> <pre> graph LR subgraph Employee E_ID[Employee_ID] E_Name[Name] E_Pos[Position] end subgraph Leave L_ID[ID_Leave] L_Type[Type_of_Leave] L_Num[Number_of_Leave] L_E_ID[Employee_ID] end E_ID --- L_E_ID </pre> </div>	<p data-bbox="1270 1122 1385 1155">[1 mark]</p> <p data-bbox="1270 1173 1414 1207">[1markah]</p>																													
33	(a)	<table border="1" data-bbox="373 1375 1426 1715"> <tr> <td>Problem Statement</td> <td>Produce a multimedia presentation on School Co – Curricular Activities</td> </tr> <tr> <td>Project Title</td> <td>School Co – Curricular Activities</td> </tr> <tr> <td>Objective</td> <td>To inform/deliver information about School Co – Curricular Activities to audience.</td> </tr> <tr> <td>Target audience</td> <td>A group of state education department.</td> </tr> </table> <p data-bbox="395 1771 903 1805">Any relevant answers given by student.</p> <p data-bbox="1326 1827 1453 1861" style="text-align: right;">[3 marks]</p>	Problem Statement	Produce a multimedia presentation on School Co – Curricular Activities	Project Title	School Co – Curricular Activities	Objective	To inform/deliver information about School Co – Curricular Activities to audience.	Target audience	A group of state education department.																						
Problem Statement	Produce a multimedia presentation on School Co – Curricular Activities																															
Project Title	School Co – Curricular Activities																															
Objective	To inform/deliver information about School Co – Curricular Activities to audience.																															
Target audience	A group of state education department.																															

	<p>(b) Design the interface for the main page.</p> <p>Criteria for interface :</p> <p>(i) Must contain 5 elements of multimedia: text, graphic, audio, video and animation.</p> <p>(ii) Information about school co - curriculum :</p> <ul style="list-style-type: none">• Badan beruniform• Kelab dan persatuan• Sukan dan permainan• Kejayaan dan pencapaian sekolah / School Achievements <p>(iii) Navigation button</p> <p>(iv)Hyperlink</p> <p>Each criteria carry 1 mark Total : 4 marks / 4 <i>markah</i></p>	
--	---	--