

Name :

Class :

CONFIDENTIAL**3765/1****ICT 1****OGOS 2009****2½ Hours**

**PEJABAT PELAJARAN DAERAH GOMBAK
GOMBAK SELANGOR**

PEPERIKSAAN PERCUBAAN

SIJIL PELAJARAN MALAYSIA

INFORMATION AND COMMUNICATION TECHNOLOGY

3765/1

2 ½ HOURS

READ THE INSTRUCTION CAREFULLY

1. Section A consists of 25 questions. Answer ALL questions in answer sheet A1.
2. Section B consists of 5 questions. Answer ALL the questions.
3. Section C consists of 3 questions. Answer two questions. Question 1 is compulsory AND either Question 2 or Question 3.

This paper consists of 18 printed pages.

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Section A
Bahagian A
[36 marks]
[36 markah]

Answer **all** question. Write your answers in the spaces provided in Answer Sheet.
 Each answer carries one mark.

Jawab **semua** soalan. Tulis jawapan anda diruang yang disediakan pada Helaian Jawapan. Setiap Jawapan diperuntukkan satu markah.

1. Figure 1 show the technologies used in two different generations of computers.
Jadual 1 menunjukkan penggunaan teknologi dalam dua generasi komputer yang berbeza.



(a)



(b)

Figure 1

Which of the following is true?
 Yang manakah berikut adalah betul?

1 (a)	1 (b)
A. First Generation	Fourth Generation
B. Second Generation	First Generation
C. Third Generation	Second Generation
D. Fourth Generation	Third Generation

2. Write **True** or **False** for the following statements:

*Tuliskan **Benar** atau **Palsu** pada pernyataan berikut :*

- (i) Privacy means that we have the right not to disclose our personal details.
Kebersendirian bermaksud yang kita mempunyai hak untuk tidak mendedahkan maklumat peribadi.
- (ii) Computer Ethics is a guideline for computer users.
Etika Komputer adalah panduan untuk pengguna komputer.

3. Read the statement given and answer the question.

In the recent years, many concerns and issues were raised on the integrity and security of information, legal status of online transactions, privacy and confidentiality of information, intellectual property rights and security of government data placed on the Internet. So we need to protect the Internet and other online communication technologies.

Beberapa tahun kebelakangan, banyak pertikaian dan isu dibangkitkan tentang keselamatan dan integriti maklumat, status perundangan bagi transaksi atas talian, kebersendirian dan kerahsiaan maklumat, hak harta intelek dan keselamatan data kerajaan di Internet. Jadi, kita perlu melindungi Internet dan teknologi atas talian yang lain.

This statement refer to

Kenyataan ini merujuk kepada

- A. Cyber Law
Undang-undang Siber
 - B. Code of Ethics
Kod Etika
 - C. Computer Crime
Jenayah Komputer
 - D. Computer Ethics
Etika Komputer
4. Match the statements (i) and (ii) with the terminologies in Table 4.
Padankan kenyataan (i) dan (ii) dengan istilah dalam Jadual 1.

Malicious code
Theft

TABLE 4
JADUAL 4

- i. _____ is the illegal taking of another person's property without that person's freely-given.
_____ *adalah pengambilan secara haram harta orang lain tanpa kebenaran.*
- ii. _____ is any code in any part of a software or script that is intended to cause undesired effects, security breaches or damage to a system.
_____ *adalah sebarang kod dalam perisian atau skrip yang bertujuan untuk menyebabkan kesan luar jangka, pencerobohan sekuriti atau kerosakan pada sistem.*

5. Below are the examples on how to control the access to controversial content:

Di bawah adalah contoh bagaimana untuk mengawal capaian kepada kandungan yang kontroversi.

I. Install antivirus

Menginstall antivirus

II. Referred to by URLs

Merujuk kepada URLs

III. Use filtering software

Menggunakan tapisan perisian

IV. Rate the content of websites

Mengkadarkan kandungan laman web.

- A. I and II
- B. I, II and IV
- C. II, III and IV
- D. All at the above.

6. Write **True** or **False** for the following statements:.

*Tuliskan **Benar** atau **Palsu** bagi pernyataan berikut:*

- i.) The clock speed unit is measured in hertz where a hertz is one cycle per second.
Unit bagi kelajuan jam disukat dalam hertz dimana satu hertz bersamaan dengan satu kitaran per saat.
- ii.) Information may come in various forms such as articles, charts, commentaries, quotes and recommendations.
Maklumat boleh dalam pelbagai bentuk seperti artikel, carta, komentar, quote dan cadangan.

7. Floppy disc, CD-ROM and flash drive are examples of _____

Disket, CD-ROM dan pemacu kilat adalah contoh _____

- A Primary storage
Storan primer
- B Secondary storage
Storan sekunder
- C Tertiary Storage
Storan ketiga
- D Additional Storage
Storan tambahan

8. **Figure 5** shows a motherboard.
Rajah 1 menunjukkan papan induk

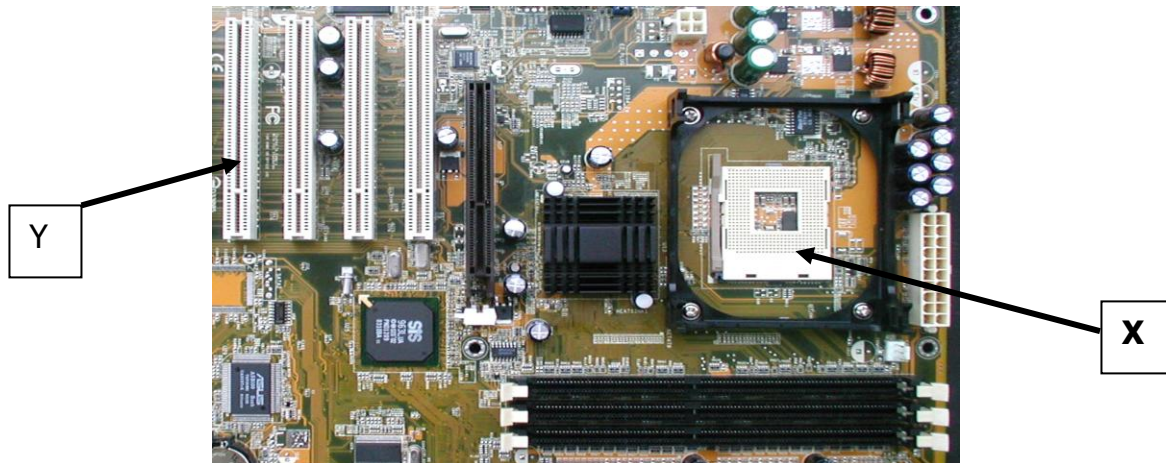


Figure 1

Based on **Figure 1**, Name
 Berdasarkan *Rajah 1*, namakan

- i.) X
- ii.) Y

9. The interface menu as mean of entering commands, enable the user to avoid memorizing keywords such as copy, paste and syntax.
Menu pada antaramuka yang membolehkan pengguna tidak perlu mengingati arahan seperti salin, tampal dan sintaks.

The statement above refers to _____ interface of operating system.
 Pernyataan diatas merujuk kepada antaramuka _____ bagi sistem pengoperasian.

10. Name the program that compiles technical information about a computer's hardware and software to identify problems.
 Namakan program yang megumpulkan maklumat teknikal berkaitan hardware dan software komputer bagi tujuan mengenalpasti masalah.

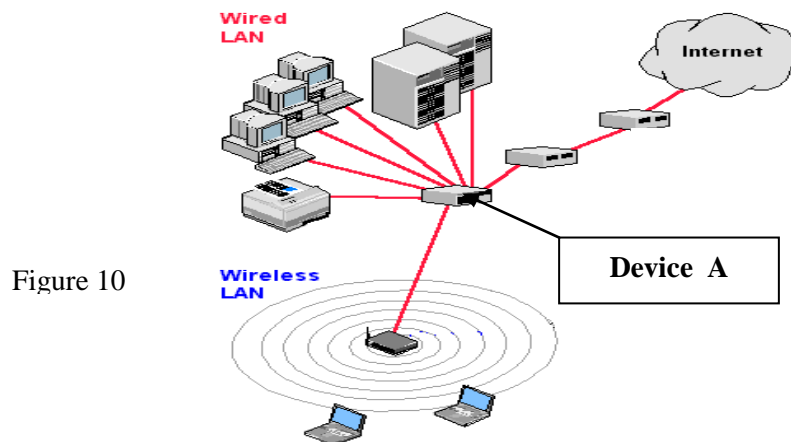
- A. Antivirus
Antivirus
- B. File manager
Pengurus File
- C. Data Compression
Pemampat data
- D. Diagnostic utility
Utiliti diagnostik

11. Which is from the following statements is **not true** about definition of computer system?
*Manakah antara pernyataan yang berikut **tidak benar** mengenai definisi sistem komputer?*

- A. A computer system is defined as any utility software such as winzip and scandisk.
Sistem komputer didefinisikan sebagai sebarang perisian utiliti seperti winzip dan scandisk.
- B. A computer system requires hardware, software and a user to fully function.
Sistem komputer memerlukan perkakasan, perisian dan pengguna untuk berfungsi.
- C. A computer system is defined as combination of components designed to process data and store files.
Sistem komputer boleh didefinisikan sebagai kombinasi komponen yang direka untuk memproses data dan menyimpan fail.
- D. A computer system consists of four major hardware components; input devices, output devices, processor and storage devices.
Sistem komputer mengandungi empat komponen perkakasan utama, perkakasan input, perkakasan output, pemproses dan perkakasan storan.

12. Ali connects three computers in his office. The type of network that he used is called a _____. Ali's customer, David who lives in Singapore connects his computer to Ali's new networks. This type of network is called a _____.

13. Figure 10 shows the network at XYZ school.



Device A in Figure 2 refer to
Peranti A dalam Rajah 2 merujuk kepada

- A. switch
- B. modem
- C. access point
- D. network interface card

14. Write 'True' or 'False' for the following statements:.

Tulis '**Benar**' atau '**Palsu**'.

The following statements describe computer networks.

Kenyataan berikut menerangkan rangkaian computer.

- i.) All computers in peer-to-peer network have equal responsibilities and capabilities to use the resources available on the network. _____
Semua komputer dalam rangkaian rakan-ke-rakan mempunyai tanggung jawab dan keupayaan yang sama untuk menggunakan sumber dalam rangkaian. _____
- ii.) Extranet is a private network that uses internet technology to share information with authorized parties. _____
Ekstranet adalah rangkaian persendirian yang menggunakan teknologi Internet untuk berkongsi maklumat dengan pihak yang dibenarkan. _____

15. Table 12 shows the characteristics of a cable used in a wired network system.

Jadual 1 menunjukkan ciri-ciri kabel yang digunakan dalam system rangkaian berwayar.

Characteristics of cable <i>Ciri-ciri kabel</i>
<ul style="list-style-type: none"> consists of thin strands of glass <i>terdiri daripada urat kaca halus</i> uses light to transmit signals <i>menggunakan cahaya untuk menghantar isyarat</i>

Based on Table 1, state
berdasarkan Jadual 1, nyatakan

- i) the name of the cable
nama kabel itu
- ii) the function of the cable
fungsi kabel itu

16. Which of the following combination of multimedia elements and its standard format file is correct?

Yang mana berikut, gabungan elemen multimedia dan format fail piawai yang betul?

- A. Audio ----- .dat
- B. Video ----- .doc
- C. Audio ----- .wav
- D. Graphic ----- .http

17. What are the responsibilities of a project manager in developing a multimedia project?

Apakah tanggungjawab seorang Pengurus Projek dalam pembinaan projek multimedia?

- I. Write proposals
Menulis cadangan projek
 - II. Make sure deadlines are met
Memastikan tarikh akhir ditepati
 - III. Keeps the project well organized
Memastikan projek diuruskan dengan baik
 - IV. Provides resolution for development and production problems
Membuat keputusan bagi setiap masalah dalam pembangunan dan pembinaan projek
- i. I, II, III
 - ii. I, II, IV
 - iii. II, III, IV
 - iv. I, II, III, IV

18. Figure 18 represents the different phases in multimedia production.

Rajah 20 menunjukkan perbezaan bagi setiap fasa dalam pembinaan projek multimedia.

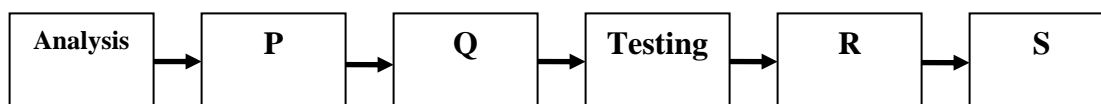


Figure 18 / Rajah 18

What phases do P, Q, R, S in Figure 20 represent in a multimedia production?

Apakah fasa yang sepatutnya dinyatakan oleh P, Q, R dan S pada rajah 20 di atas?

	P	Q	R	S
A	Implementation <i>Pelaksanaan</i>	Publishing <i>Penerbitan</i>	Evaluation <i>Penilaian</i>	Design <i>Reka bentuk</i>
B	Evaluation <i>Penilaian</i>	Implementation <i>Pelaksanaan</i>	Publishing <i>Penerbitan</i>	Design <i>Reka bentuk</i>
C	Design <i>Reka bentuk</i>	Implementation <i>Pelaksanaan</i>	Evaluation <i>Penilaian</i>	Publishing <i>Penerbitan</i>
D	Design <i>Reka bentuk</i>	Evaluation <i>Penilaian</i>	Implementation <i>Pelaksanaan</i>	Publishing <i>Penerbitan</i>

19. Write **True** or **False** for the following statements:

*Tuliskan **Benar** atau **Palsu** pada pernyataan berikut :*

Salimah learns to use HTML scripting to develop web pages.

Salimah belajar menggunakan skrip HTML untuk membangunkan laman web.

- i.) She uses a text-based web editor
Dia menggunakan editor laman web berasaskan teks
- ii.) She uses hyperlinks to link other pages in the website.

Dia menggunakan hyperlink untuk meghubungkan laman-laman lain pada tapak web tersebut.

20. Which type of control structure is represented by the following pseudocode?

Yang manakah stuktur kawalan yang ditunjukkan di bawah adalah berdasarkan kod pseudo?

```
BEGIN
Request ID
If ID is equal to AM66F3Y
    Print "You are allow to access the database"
Else
    Print "Sorry, your ID is not correct"
End If
END
```

- A. Request control structure / *Struktur kawalan permintaan*
- B. Repetition control structure / *Struktur kawalan pengulangan*
- C. Sequence control structure / *Struktur kawalan jujukan*
- D. Selection control structure / *Struktur kawalan pilihan*

21. Which of the following describes sequence control structure?

Yang manakah di antara berikut menerangkan struktur kawalan jujukan?

- I. Implement decision making process in the diagram
Melaksanakan proses membuat keputusan dalam aturcara
- II. Execute different statements for different conditions.
Melaksanakan kenyataan berlainan untuk syarat berbeza.
- III. Execute the code line by line regardless of the condition
Melaksanakan arahan baris demi baris tanpa mengira syarat
- IV. Executes statements one by ine in linear or consecutive order
Melaksanakan kenyataan satu demi satu dalam urutan linear atau berturutan

- A. I and II
- B. I and III
- C. II and IV
- D. III and IV

22. When _____ is arranged and organised in a meaningful way, it becomes information.

Apabila _____ disusun dan diurus secara bermakna, ia akan menjadi maklumat.

23. Figure 1 shows the employee table in the Staff Information System of Kiya's Company.

Employee ID	Last Name	First Name	Title	Title Of Courtesy	Birth Date
1	Davolio	Nancy	Sales Representative	Ms.	08-Dec-1968
2	Fuller	Andrew	Vice President, Sales	Dr.	19-Feb-1952
3	Leverling	Janet	Sales Representative	Ms.	30-Aug-1963
4	Peacock	Margaret	Sales Representative	Mrs.	19-Sep-1958
5	Buchanan	Steven	Sales Manager	Mr.	04-Mar-1955
6	Suyama	Michael	Sales Representative	Mr.	02-Jul-1963
7	King	Robert	Sales Representative	Mr.	29-May-1960
8	Callahan	Laura	Inside Sales Coordinator	Ms.	09-Jan-1958
9	Dodsworth	Anne	Sales Representative	Ms.	02-Jul-1969

Name:

i.) P : _____

ii.) Q : _____

24. Give **two** basic operations of data manipulation in database.

i) _____

ii) _____

25. The components of the information systems are _____, data, software, _____ and procedure.

Komponen-komponen sistem maklumat adalah _____, data, perisian, _____ dan prosedur.

Name :

Class :

SECTION A
ANSWER SHEET

NO.		ANSWER	SCORE
1			
2	i)		
	ii)		
3			
4	i)		
	ii)		
5			
6	i)		
	ii)		
7	i)		
	ii)		
8			
9			
10			
11			
12	i)		
	ii)		
13			
14	i)		
	ii)		
15	i)		
	ii)		
16			
17			
18			
19	i)		
	ii)		
20			
21			
22			
23	i)		
	ii)		
24	i)		
	ii)		
25	i)		
	ii)		

Section B
Bahagian B

[20 Marks]
[20 Markah]

This section consists of **five** questions. You are required to answer **all** questions.
*Bahagian ini mengandungi **lima** soalan. Anda dikehendaki menjawab **semua** soalan.*

- 26** Based on **Situation 1**, answer the following question:
Berdasarkan Situasi 1, jawab soalan-soalan berikut:

Haziq likes to access the internet. One day, while surfing the internet, his computer starts to run a little weird. He noticed that the modem LEDs were blinking even after he has stopped surfing. His system seemed to get slow and suddenly reboots. Haziq is sure that somebody has logged onto his computer.

Haziq gemar melayari internet. Pada suatu hari, semasa Haziq sedang melayari internet, beliau mendapati komputer beliau tidak laju seperti biasa. Beliau juga mendapati bahawa 'LED' pada modem berkelip walaupun beliau tidak lagi melayari internet. Komputer beliau juga 'reboot'. Haziq pasti terdapat pengguna lain yang telah memasuki sistem komputernya.

Situation 1
Situasi 1

- a. List **two** examples of computer threat is mentioned in the situation above? [2 marks]
Senaraikan jenis ancaman komputer yang disebutkan dalam situasi di atas. [2markah]
- b. State **two** things that Haziq can do to enhance the security of his data while accessing the Internet. [2 marks]
*Nyatakan **dua** perkara yang boleh dilakukan oleh Haziq untuk meningkatkan lagi keselamatan data beliau semasa melayari internet. [2 markah]*

- 27 Figure 27 shows example devices of types of storage.
Rajah 27 menunjukkan jenis contoh peranti-peranti storan.

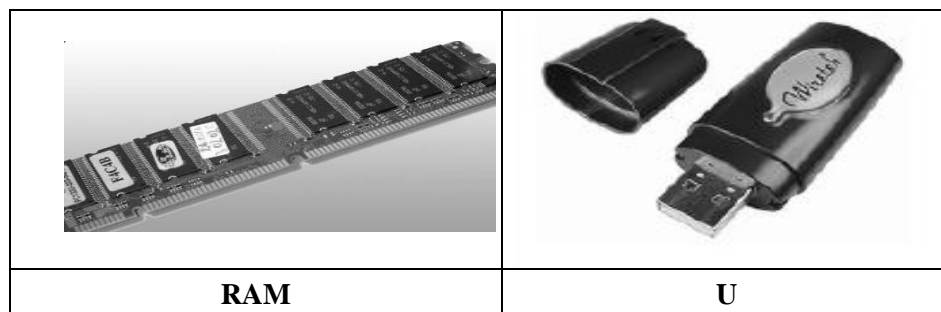


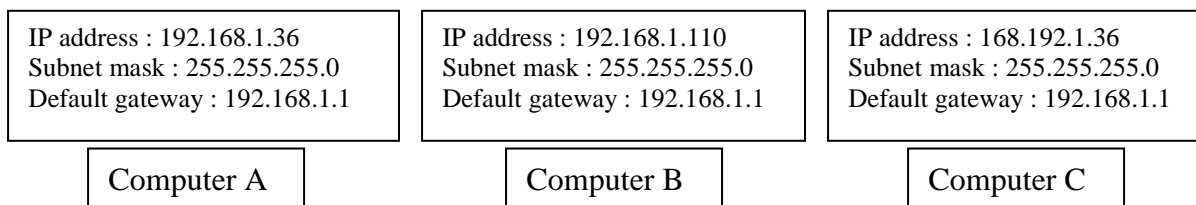
Figure 27

Based on Figure 27

Berdasarkan Rajah 27;

- (a) Identify the type and give **ONE** function of **U**. [2 marks]
*Kenalpasti jenis storan **U** dan berikan fungsinya.* [2markah]
- (b) State **TWO** differences between types of **RAM** and **U**. [2 marks]
*Nyatakan **DUA** perbezaan di antara jenis storan **RAM** dan **U**.* [2markah]

- 28 Figure 28 shows computer network.



Three of computer above has connected through LAN.

Tiga komputer di atas dihubungkan melalui LAN.

- a.) Based on figure 28, which computer can communicate each other and which is not? [2marks]
Berdasarkan rajah 28, komputer manakah yang boleh berkomunikasi dan yang mana pula yang tidak boleh berkomunikasi? [2markah]
- b.) One of the computers above cannot communicate each other, explain why? [2marks]
Terangkan mengapa sebuah komputer tidak dapat berkomunikasi? [2markah]

- 29 Based on the Case Study and pseudo code below, answer the following questions.
Berdasarkan kajian kes dan kod pseudo di bawah, jawab soalan-soalan berikut.

Case Study

SMK Tun Uda's Library needs a computerized registration program for their books registration process. As a librarian, you are given the responsibility by your library teacher to develop a program using Visual Basic 6.0 programming language.

Kajian Kes

Perpustakaan SMK Tun Uda memerlukan program pendaftaran berkomputer untuk proses pendaftaran buku. Sebagai seorang Pustakawan, anda diberi tanggungjawab oleh Guru Perpustakaan untuk membina program tersebut menggunakan bahasa pengaturcaraan Visual Basic 6.0.

Pseudo Code

BEGIN

Request book_title, author, year publish, publisher from user
Check input data

If any field empty Then
print "Please complete the data!"

Else
print "Book registered!"

End If

END

- a. Write a suitable data type of each following:
Tuliskan jenis data yang sesuai bagi setaip yang berikut:

i) Author :
Pengarang :

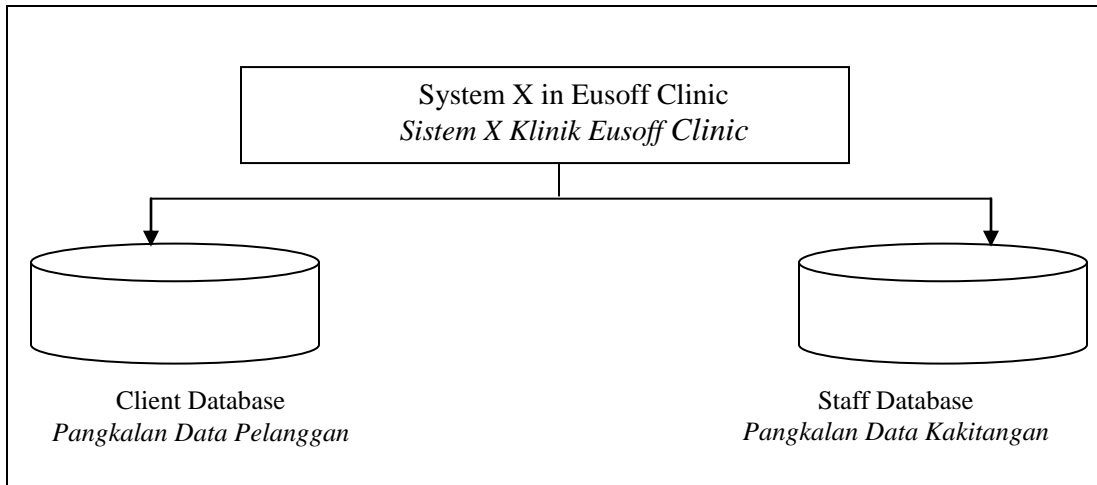
ii) Year Publish :
Tahun terbitan :

[2 marks]

- b. Describe **one** translation method used in above Coding Phase.
Terangkan satu cara penterjemahan yang digunakan dalam Fasa Pengkodan di atas.

[2 marks]

- 30** The Figure below shows an Information System.
Rajah di bawah menunjukkan satu Sistem Maklumat.



- (a) List two benefits of System X [2 marks]
*Senaraikan **dua** kelebihan menggunakan Sistem X* [2 markah]
- (b) System X had been hacked.
Explain the effects of this action to the clinic. [2 marks]
Sistem X telah diceroboh. [2 markah]
Terangkan kesan perbuatan tersebut ke atas klinik tersebut.

Section C
Bahagian C
[14 marks]
[14 markah]

This section consists of **three** questions. You are required to answer two questions only:
Bahagian ini mengandungi tiga soalan. Anda dikehendaki menjawab dua soalan sahaja:

- (i) **Question 32 is compulsory, and**
Soalan 32 adalah wajib, dan
- (ii) Either **Question 31** or **Question 33.**
Sama ada Soalan 31 atau Soalan 33

31 Based on figure 31 below, answer the question.

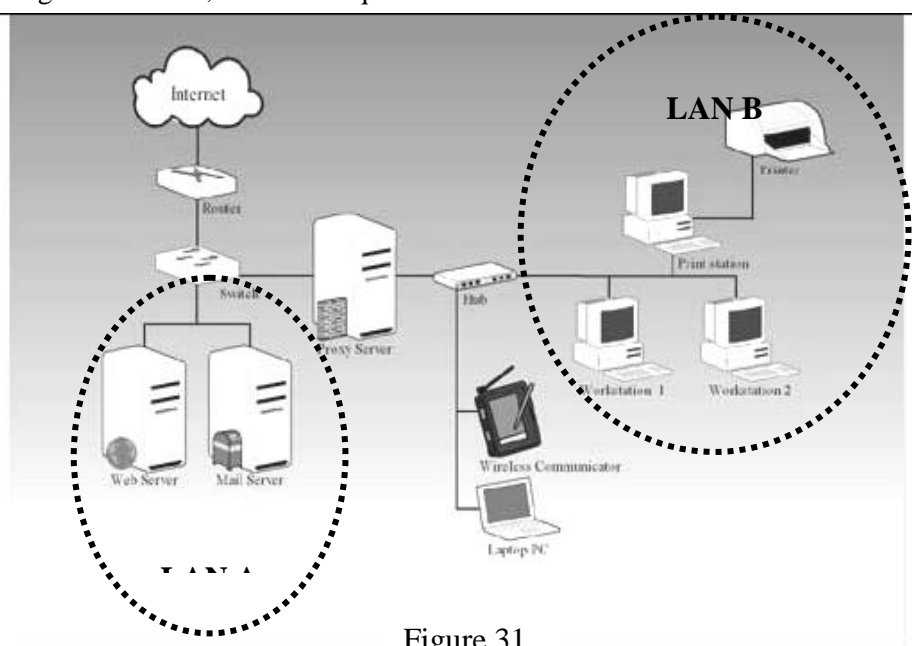


Figure 31

Figure above shows a computer network at Money Bank. The network consists of two Local Area Network (LANs): LAN A and LAN B which are part of the bank Wide Area Network (WAN). Currently the Money Bank implements two network communications. Apart from the Internet, the bank also has its own intranet to facilitate their internal communications. They are looking to set up extranet as the third form of network communication in the near future.

Rajah di atas menunjukkan rangkaian komputer di Bank Money. Rangkaian ini mengandungi dua Sistem Rangkaian Setempat (LAN): LAN A dan LAN B yang merupakan sebahagian daripada Sistem Rangkaian Luas (WAN) Bank Money tersebut. Pihak bank baru melaksanakan dua jenis teknologi komunikasi rangkaian. Selain dari Internet, pihak bank juga mempunyai intranet untuk komunikasi peringkat dalaman. Mereka merancang untuk membangunkan extranet sebagai teknologi komunikasi rangkaian ketiga dalam jangka waktu terdekat.

Based on Figure ,
Berdasarkan Rajah,

- a.) State **three** differences between the two computer network types of the bank.

[3 marks]

Nyatakan tiga perbezaan di antara dua jenis rangkaian komputer bank tersebut.

[3 markah]

- b.) Explain two current types of network communications technology use in the bank.

[4 marks]

Nyatakan dua jenis teknologi komunikasi rangkaian yang sedang digunakan di bank sekarang. Jelaskan salah satu daripadanya.

[4 markah]

Use a specific example to explain the proposed network communication.

Gunakan contoh khusus untuk menjelaskan komunikasi rangkaian yang dirancang di atas.

32

SMK La Salle uses a computerised grading system to record each student's co-curricular performance. Every student receives a grade for each co-curricular activity involved at the end of each year.

Figure 32(a) shows three database tables in the grading system.

COCU : Table

Cocu_ID	Description
P001	Science and Technology Society
K001	Board of Prefects
K002	Computer Data Management Unit
S001	Volleyball

Record: 4 of 4

STUDENT : Table

Student_ID	Class	Name
05001	S5A	Tan Hooi Ying
05002	S5B	Lim You Jin
05003	S5C	Khoo Lian Kim
05004	S5D	Tan Siew Cheng

Record: 4 of 4

ACTIVITY : Table

Student_ID	Cocu_ID	Marks	Grade
05001	P001	81	A
05001	K001	65	B
05002	K002	56	C
05002	S001	67	B
05003	K001	88	A
05003	S001	51	C
05004	P001	66	B
05004	K002	61	B

Record: 8 of 8

Figure 32(b) shows a query design of the system

Query1 : Select Query

Field:	Cocu_ID	Student_ID	Name	Description	Marks	Grade
Table:	ACTIVITY	ACTIVITY	STUDENT	COCU	ACTIVITY	ACTIVITY
Sort:						
Show:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:	"K001"				>60	
or:						

(a) Describe the interrelation between ANY three components of the grading system. [3 marks]

(b) Based on the query in Figure 9(b), draw a table to show the query results. [4 marks]

- 33 Based on the case study and pseudo code below, answer the following questions.
Berdasarkan kajian kes dan kod sumber di bawah, jawab soalan-soalan berikut.

Case Study

SMK Tun Uda's Library needs a computerized registration program for their books registration process. As a librarian, you are given the responsibility by your library teacher to develop a program.

Kajian Kes

Perpustakaan SMK Tun Uda memerlukan program pendaftaran berkomputer untuk proses pendaftaran buku. Sebagai seorang Pustakawan, anda diberi tanggungjawab oleh Guru Perpustakaan untuk membina program tersebut.

```
BEGIN
    Request book_title, author, publisher from user
    Check input data

    If any field empty Then
        print " Please complete the data!"
    Else
        print "Book registered!"
    End If
END
```

- a. Based on the pseudo code given, draw the suitable flow chart to show the flow of program.
[4 marks]

Berdasarkan kod sumber yang diberi, lukis carta alir yang sesuai untuk menunjukkan aliran program.

[4 markah]

- b. Based on Pseudo code given and flow chart in 33(a), explain the control structure used.
[3 marks]

Berdasarkan pseudo kod yang diberi dan carta alir dalam 33(a), jelaskan struktur kawalan yang digunakan.

[3 markah]

END OF QUESTION PAPER

SECTION A

SECTION A
ANSWER SHEET

NO.		ANSWER	SCORE
1		B	
2	i)	TRUE	
	ii)	TRUE	
3		A	
4	i)	THEFT	
	ii)	MALICIOUS CODE	
5		C (II, III AND IV)	
6	i)	TRUE	
	ii)	TRUE	
7	i)	B	
	ii)	CPU SLOT / CPU SOCKET	
8		EXPANSION SLOT	
9		MENU DRIVEN	
10		D	
11		A	
12	i)	LOCAL AREA NETWORK	
	ii)	WIDE AREA NETWORK	
13		A	
14	i)	TRUE	
	ii)	TRUE	
15	i)	FIBRE OPTIC CABLE	
	ii)	To transmit data as pulse of light through tiny tubes of glass	
16		C	
17		iii (II, III, IV)	
18		C	
19	i)	TRUE	
	ii)	TRUE	
20		D	
21		D	
22		DATA	
23	i)	FIELD	
	ii)	RECORD	
24	i)	UPDATE/MODIFY/FILTER/INSERT/RETRIEVE/SEARCH/DELETE/SORT	
	ii)	UPDATE/MODIFY/FILTER/INSERT/RETRIEVE/SEARCH/DELETE/SORT	
25	i)	HARDWARE/PEOPLE	
	ii)	HARDWARE/PEOPLE	

SECTION B

26. LA 1

List **two** examples of computer threat is mentioned in the situation above?

- 1.) **Milicious code :- Virus Attack / worm (1m)**
- 2.) **Hacker (1m)**

State **two** things that Haziq can do to enhance the security of his data while accessing the Internet.

- (i) **Install** antivirus software (1m)
- (ii) **Install** anti spyware (1m)
- (iii) **Install or Use** firewall in his computer network system
- (iv) **Use** cryptography
- (v) **Create and Use** password for any important data file.

27. LA 2

(a) U : secondary storage and stores instructions (Information) permanently.

U : *storan sekunder dan menyimpan maklumat secara tetap..*

(b)

i) Data and program in RAM stores during and after processing while ROM stored by manufacturer.

Data dan aturcara dalam RAM disimpan semasa dan selepas pemprosesan sementara ROM disimpan data oleh pengeluar.

ii) Content in RAM stores information temporarily while U(secondary) stores instructions (Information) permanently.

Kandungan data dalam RAM menyimpan maklumat sementara manakala U (sekunder) menyimpan maklumat secara tetap.

iii) Processing time in RAM Very fast, but uses a lot of power while ROM fast, but uses very little power.

Masa pemprosesan dalam RAM sangat pantas tetapi menggunakan kuasa yang banyak sementara ROM mengambil masa yang laju, tetapi menggunakan kuasa sedikit.

28. LA 3

a) Computer A and B can communicate each other. while computer C cannot.

b)

29. LA 5

- a) i) string
- ii) integer

b) interpreter or compiler.

30. LA 6

SECTION C

31.jfgyfj

a) LAN and WAN

b) Internet and Intranet

.....

32. INFORMATION SYSTEM

32. INFORMATION SYSTEM

32	<p>a.)</p> <p>The unit of <u>co-curriculum prefects</u> (people) type in the <u>marks</u> (data) for the co-curricular activities involved by students.</p> <p>The marks (data) are entered into the <u>grading program</u> (software) which is installed in the computer (hardware).</p> <p>or</p> <p>The unit of <u>co-curriculum prefects</u> (people) use the program based on the <u>user's manual</u>. (procedure)</p> <p>The prefects (people) can print out the co-curricular performance for each student via a <u>printer</u> (hardware).</p> <p>Or any interrelation of 3 component.</p>	3 marks															
	<p>b.)</p> <table><tr><th>Student_ID</th><th>Name</th><th>Description</th><th>Marks</th><th>Grade</th></tr><tr><td>05001</td><td>Tan Hooi Ying</td><td>Board of Prefects</td><td>65</td><td>B</td></tr><tr><td>05003</td><td>Khoo Lian Kim</td><td>Board of Prefects</td><td>88</td><td>A</td></tr></table>	Student_ID	Name	Description	Marks	Grade	05001	Tan Hooi Ying	Board of Prefects	65	B	05003	Khoo Lian Kim	Board of Prefects	88	A	Draw: 1m Field: 1m Rekod1: 1m Rekod2: 1m
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33.PROGRAMMING

33	<p>a) Constant value = PI or 3.142</p> <table border="1"> <thead> <tr> <th></th><th>Constants</th><th>Variables</th></tr> </thead> <tbody> <tr> <td>Characteristics</td><td>Value is not changeable during the course of the program.</td><td>Value can be changed anytime during the course of the program.</td></tr> <tr> <td>Usage</td><td>Use constant when you want to declare something that won't be changed midway in your program execution.</td><td>Use variable to store data that may or will change during the running of the program.</td></tr> </tbody> </table>		Constants	Variables	Characteristics	Value is not changeable during the course of the program.	Value can be changed anytime during the course of the program.	Usage	Use constant when you want to declare something that won't be changed midway in your program execution.	Use variable to store data that may or will change during the running of the program.	1 marks 2 marks 2 marks
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Usage	Use constant when you want to declare something that won't be changed midway in your program execution.	Use variable to store data that may or will change during the running of the program.									

	<p>b) Sequence Control Structure is used in Figure 1.</p> <p>A sequence control structure executes statement one by one in linear order.</p> <p>The programmer uses sequence control structure when he/she want to execute code line by line.</p> <p>The program does not use decision symbol.</p>	2 marks