

**ICT Intensive Exercise Form 4 (IA1, IA2, IA3)**

Name:

IC No.:

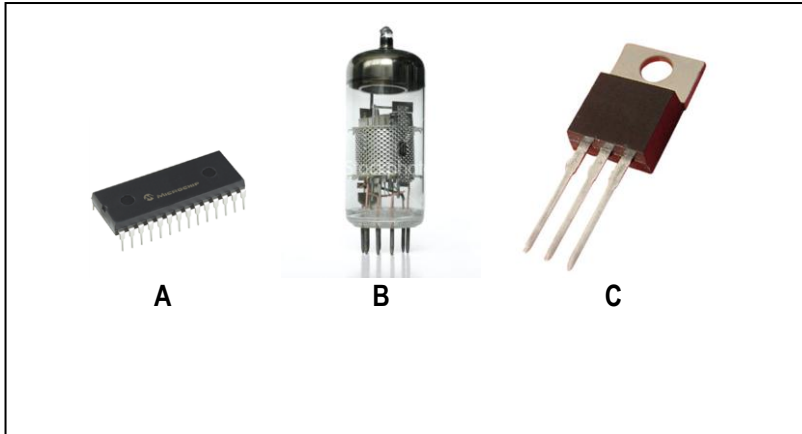
Date:

1. State the name of the first generation computer.  
*Nyatakan nama komputer generasi pertama.*

[1]

(SPM 2008)

2. Figure shows three technologies used in the generations of computers.  
*Rajah menunjukkan tiga teknologi yang digunakan dalam generasi komputer.*



Based on Figure, writes A, B or C to match the following:  
*Berdasarkan Rajah, tulis A, B atau C untuk dipadankan dengan yang berikut:*

- i) Second Generation  
*Generasi Kedua*  
[1]
- ii) Third Generation  
*Generasi Ketiga*  
[1]

(SPM 2010)

3. Complete the following statement.  
*Lengkapkan pernyataan berikut.*

Information and Communication Technology is the use of computers,  
i) ..... devices and ii) ..... applications  
for processing, storing, retrieving, protecting and transmitting information  
from anywhere at any time.

[1]

[1]

*Teknologi Maklumat dan Komunikasi adalah penggunaan komputer,  
peranti i) ..... dan aplikasi ii) .....  
untuk memproses, menyimpan, mencapai semula, melindungi dan menghantar maklumat  
dari mana-mana tempat pada bila-bila masa.*

(SPM 2010)

**ICT Intensive Exercise Form 4 (IA1, IA2, IA3)**

Name:

IC No.:

Date:

4. Match the various fields in Multimedia with the statements below.  
*Padankan pelbagai bidang Multimedia dengan kenyataan di bawah.*

<b>A Entertainment</b> <i>Hiburan</i>	<b>B Medical</b> <i>Perubatan</i>	<b>C Engineering</b> <i>Kejuruteraan</i>
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- i) Produce computer games and develop animations and special effects.  
*Penghasilan permainan komputer dan pembangunan animasi dan kesan khas.*  
[1]
- ii) View the design from many aspects and improve on it before production.  
*Memaparkan rekabentuk dari banyak aspek dan memperbaikinya sebelum dipasarkan.*  
[1]



(EXAM 2010)

5. Figure shows a situation in a banking system.  
*Rajah menunjukkan situasi sistem perbankan.*



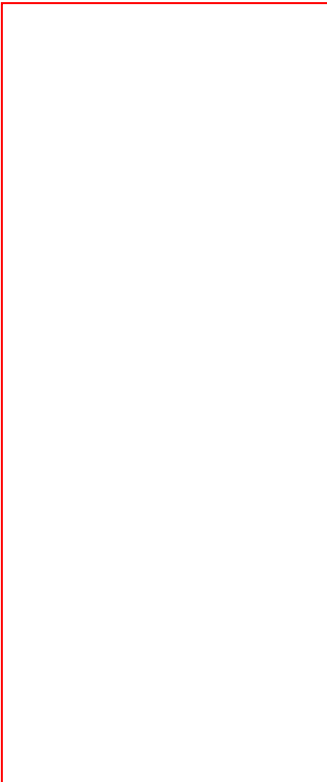
System A



System B

Based on Figure,  
*Berdasarkan Rajah,*

- a) State **two** advantages when the management changed the system from A to B.  
*Nyatakan **dua** kelebihan yang diperolehi apabila pihak pengurusan bank mengubah dari sistem A ke sistem B.*  
[2]
- b) State **two** disadvantages when the management changed the system from A to B.  
*Nyatakan **dua** kelemahan yang diperolehi apabila pihak pengurusan mengubah dari sistem A ke sistem B.*  
[2]



(PUTRAJAYA 2010)

**ICT Intensive Exercise Form 4 (IA1, IA2, IA3)**

Name: \_\_\_\_\_

IC No.: \_\_\_\_\_

Date: \_\_\_\_\_

6. The following is a statement on information privacy.  
*Pernyataan berikut berkaitan keperibadian maklumat*

“Information privacy refers to the right of individuals and organisations to deny or restrict the collection and use the information about them”  
*Keperibadian maklumat merujuk kepada hak individu dan organisasi untuk menafi atau mengelakkan hasil dan maklumat mereka digunakan*

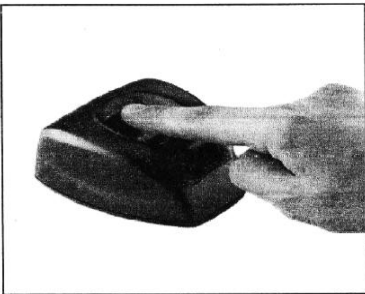
Based on the statement, list **four** ways of making personal data more private.

*Berdasarkan pernyataan, senarai empat cara untuk menjadikan data persendirian lebih peribadi.*

[4]

(SPM 2007)

7. Figure shows one type of biometric device.  
*Rajah menunjukkan satu jenis peranti biometrik.*



Based on Figure,  
*Berdasarkan Rajah,*

i) State the name of the device.  
*Nyatakan nama peranti itu.*

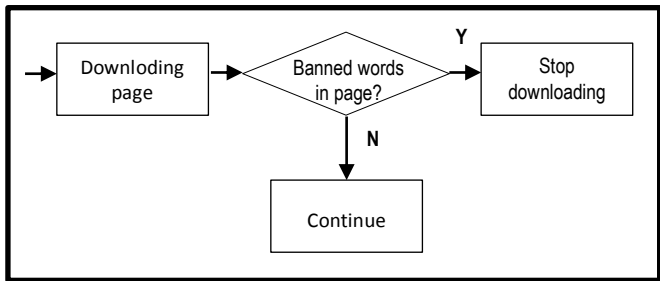
[1]

ii) State the function of the device  
*Nyatakan fungsi peranti itu.*

[1]

(SPM 2009)

8. Figure shows part of an algorithm for a web page filter.  
*Rajah menunjukkan sebahagian daripada algoritma penapisan laman web.*



State the filtering method used in the algorithm.

*Nyatakan nama kaedah penapisan yang digunakan dalam algoritma itu.*

[1]

(SPM 2009)

9. Figure shows symptoms of a computer problem.  
Rajah menunjukkan simptom pada sebuah komputer.

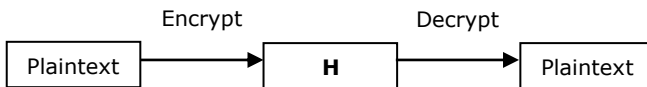
- screen displays unusual messages  
*skrin memaparkan mesej pelik*
- files become corrupted  
*fail menjadi rosak*
- files mysteriously appear  
*muncul fail yang menjadi tanda tanya*

Based on Figure:  
Berdasarkan Rajah:

- a) Identify the type of computer threat which matches the symptoms.  
*Kenal pasti jenis ancaman komputer yang berpadanan dengan simptom itu.*  
[1]  
State **two** different examples of the threat.  
*Nyatakan **dua** contoh berlainan bagi ancaman itu.*
- b) Describe **two** reasons why the computer may have been affected by the threat in a).  
*Huraikan **dua** sebab mengapa komputer tersebut dijangkiti- oleh ancaman di (a).*  
[2]  
Suggest **two** ways to prevent it.  
*Cadangkan **dua** cara untuk mengatasinya.*  
[2]

(SPM 2010)

10. Figure shows how cryptography works.  
Rajah menunjukkan bagaimana kriptografi bekerja.



Name H:

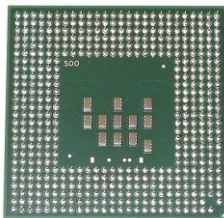
[1]

(SPM 2007)

11. State wheather the statement **true** or **false**  
*Nyatakan sama ada kenyataan berikut **benar** atau **palsu***

When placing a CPU onto a ZIF socket, Pin 1, as shown in Figure, can be placed at any one of the four corners of the socket.

*Semasa menempatkan CPU ke atas soket ZIF, Pin1, seperti dalam Rajah, boleh ditempatkan pada mana-mana penjuru soket itu.*



[1]

Pin 1

(SPM 2010)

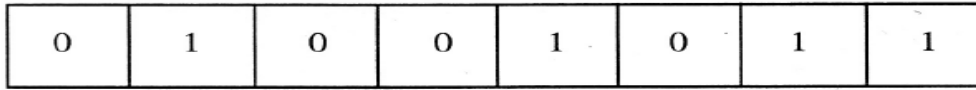
**ICT Intensive Exercise Form 4 (IA1, IA2, IA3)**

Name:

IC No.:

Date:

12. Figure shows a combination of 0s and 1s that represent character 'K' in ASCII coding scheme.  
*Rajah menunjukkan satu kombinasi 0 dan 1 yang mewakili aksara 'K' dalam skema kod ASCII.*



How many bytes are used to represent character 'K'?  
*Berapa banyakkah bait yang digunakan untuk mewakili aksara 'K'?*

[1]

(SPM 2009)

13. Table shows statements of devices  
*Jadual menunjukkan pernyataan mengenai peranti*

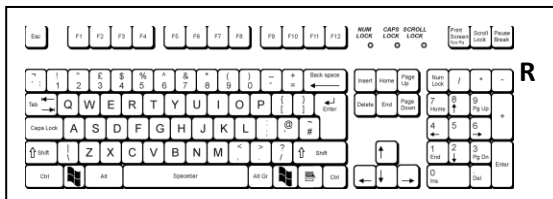
<b>A</b>	A stationary pointing device with a ball on its top or side. <i>Sebuah peranti penunjuk stasioner dengan bola di atas atau di samping.</i>
<b>B</b>	A small, flat, rectangle pointing device that is sensitive to pressure and motion <i>Kecil datar, persegi panjang menunjuk peranti yang sensitif terhadap tekanan dan gerak.</i>
<b>C</b>	A pressure-sensitive pointing device shape like pencil eraser positioned between keys on a keyboard. <i>Sebuah bentuk peranti sensitif tekanan-menunjuk seperti pemadam pensil diposisikan antara butang pada keyboard.</i>

Based on Table, write A, B or C for the following devices.  
*Berdasarkan jadual, tulis A, B atau C bagi peranti di bawah.*

- i) Touchpad [1]  
 ii) Pointing Stick [1]

(SPM 2007)

14. Figure shows two input devices.  
*Rajah menunjukkan dua peranti input.*



Based on Figure, state the type of input for:  
*Berdasarkan Rajah, nyatakan jenis input untuk:*

- i) R [1]  
 ii) S [1]

(SPM 2010)

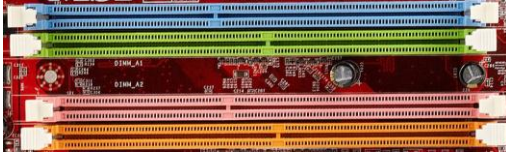
**ICT Intensive Exercise Form 4 (IA1, IA2, IA3)**

Name:

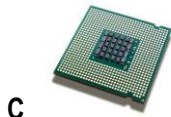
IC No.:

Date:

15. Figure shows part of a motherboard.  
Rajah menunjukkan sebahagian daripada papan induk.



Which of the components can be placed in one of the slots in Figure?  
Komponen yang manakah boleh diletak pada salah satu slot dalam Rajah?



[1]

(SPM 2010)

16. Storage controls and coordinates operations in a computer system.  
Storan mengawal dan mengkoordinasi operasi dalam sistem komputer

**FALSE / TRUE**

[1]

(SPM 2008)

17. Figure shows three devices that can store data.  
Rajah menunjukkan tiga peranti storan yang boleh menyimpan data.



Based on Figure, write A, B or C to match the following:  
Berdasarkan Rajah, tulis A, B atau C untuk memadankan yang berikut:

Can only hold the data temporarily.  
Hanya boleh menyimpan data buat sementara.

[1]

(SPM 2009)

**ICT Intensive Exercise Form 4 (IA1, IA2, IA3)**

Name:

IC No.:

Date:

18. Which of the following are network operating system?  
*Manakah yang berikut adalah sistem pengoperasian rangkaian ?*

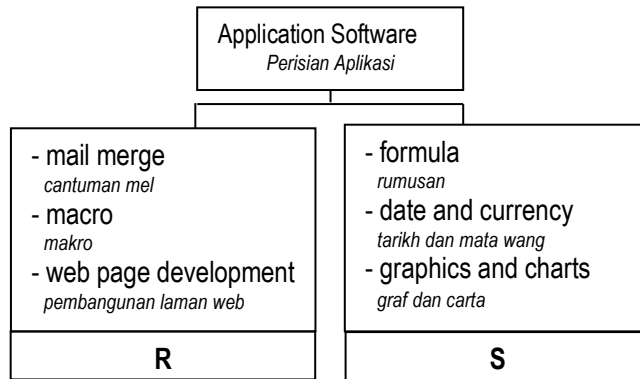
- I Windows NT
- II Windows XP
- III LINUX
- IV UNIX

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

[1]

(SPM 2008)

19. The following are features in application software  
*Berikut adalah fitur-fitur dalam perisian aplikasi*



Identify application:  
*Kenal pasti aplikasi:*

- i) **R**  
[1]
- ii) **S**  
[1]

(SPM 2010)

20. A disk scanner is a utility program that reorganises files and unused space on a computer hard disk.  
*Pengimbas cakera adalah sebuah program utiliti yang menguruskan semula dan ruang yang tidak digunakan pada cakeraa keras computer.*

True / False  
[1]

(SPM 2007)

21. Table shows statements about a utility program.  
*Jadual menunjukkan pernyataan tentang atur cara utiliti.*

Usage / Penggunaan
<ul style="list-style-type: none"> <li>○ Provides functions to delete, copy, move, rename and view files. <i>Menyediakan fungsi untuk padam, salin, alih, menamakan semula dan memaparkan fail.</i></li> <li>○ Formats and copies disks. <i>Menyalin dan memformat cakera.</i></li> <li>○ Checks the amount of used or free program space on a storage medium. <i>Memeriksa jumlah penggunaan atau ruang kosong program di dalam bahan storan.</i></li> </ul>

Based on Table, write A, B, C or D to show which type of utility is being described:  
*Berdasarkan Jadual, tulis A, B, C atau D untuk menunjukkan jenis utiliti yang diterangkan:*

- A diagnostic / *diagnostik*
  - B back up / *sandaran*
  - C file management / *pengurusan fail*
  - D data recovery / *pemulihan data*
- [1]

(SPM 2009)

22. State one feature of proprietary software that does not apply to open source software.  
*Nyatakan satu ciri tentang perisian hak milik yang tidak ada kaitan dengan perisian sumber terbuka.*

[1]

(SPM 2009)

23. Table shows two types of software and information that will be used by the software engineer to develop a system within a limited period of time.  
*Jadual menunjukkan dua jenis perisian dan maklumat yang akan digunakan oleh jurutera perisian untuk membangunkan sebuah sistem dalam masa yang terhad.*

Type of Software <i>Jenis Perisian</i>	Information <i>Maklumat</i>
Open source <i>Sumber terbuka</i>	Source code is free and available to users. <i>Kod sumbernya percuma dan tersedia kepada pengguna</i>
Proprietary <i>Hak milik</i>	Source code is copyrighted and not available to user. <i>Kod sumbernya dilindungi hak dan tidak tersedia kepada pengguna</i>

Based on Table  
*Berdasarkan Jadual,*

- i) What type of software should he choose?  
*Apakah jenis perisian yang patut dia pilih?*  
 [1]
- ii) Give **three** reasons to your answer.  
*Berikan **tiga** alasan kepada jawapan anda.*  
 [3]

(SPM 2009)

**ICT Intensive Exercise Form 4 (IA1, IA2, IA3)**

Name: \_\_\_\_\_

IC No.: \_\_\_\_\_

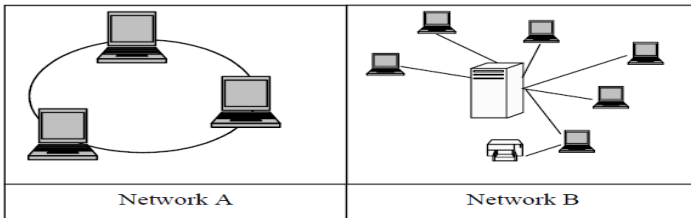
Date: \_\_\_\_\_

24. A computer network must contain at least ..... computers.  
 Rangkaian komputer sekurang-kurangnya mempunyai ..... buah komputer.

- A one
  - B two
  - C three
  - D four
- [1]

(EXAM 2010)

25. Figure shows computer network architecture.  
 Rajah menunjukkan rekabentuk rangkaian komputer.

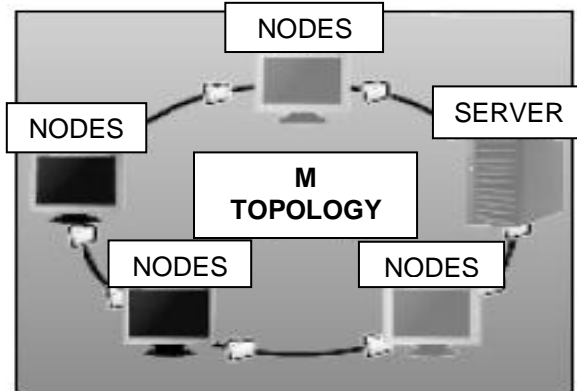


Based on Figure, name the network architecture for:  
 Berdasarkan Rajah, kenal pasti rekabentuk rangkaian bagi:

- i) Network A / Rangkaian A  
[1]
- ii) Network B / Rangkaian B  
[1]

(JOHOR 2010)

26. Figure shows network M topology.  
 Rajah menunjukkan rangkaian topologi M.



- i) Name the topology.  
 Namakan topologi.  
[1]
- ii) State **one** advantage of the topology.  
 Nyatakan **satu** kelebihan topologi.  
[1]

(PUTRAJAYA 2010)

**ICT Intensive Exercise Form 4 (IA1, IA2, IA3)**

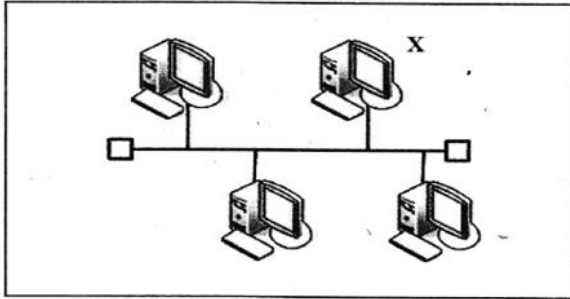
Name:

IC No.:

Date:

27. Based on Figure, if computer X stops functioning, the entire network stops.  
*Berdasarkan Rajah, jika komputer X berhenti berfungsi, keseluruhan rangkaian akan terhenti.*

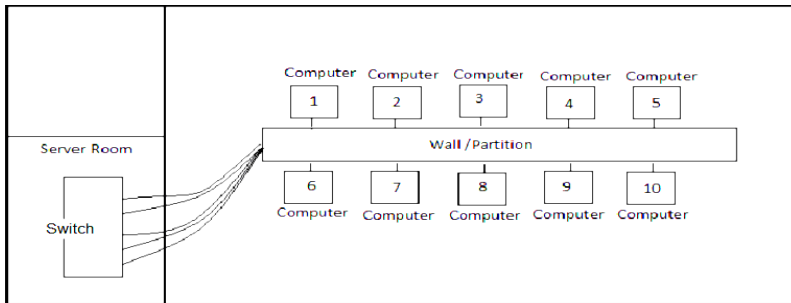
TRUE / FALSE



[1]

(SPM 2010)

28. Figure shows a sketch of a Computer Laboratory.  
*Rajah menunjukkan lakaran sebuah makmal komputer.*



*Berdasarkan Rajah*

- i) Identify the topology used and give a reason.  
*Kenalpasti topologi yang digunakan dan beri alasan.*  
[2]
- ii) State **two** differences between the topology above with the ring topology.  
*Nyatakan **dua** perbezaan antara topologi di atas dengan topologi cincin.*  
[2]

(KELANTAN 2010)

29. Cikgu Hashim is planning to setup a network system in his school. He wants to connect the School Server from the KDP Lab to the New Lab that have 20 computers.  
*Cikgu Hashim merancang membina satu sistem rangkaian di sekolah. Beliau ingin menyambung Pelayan di Makmal KDP dengan Makmal Baru yang mempunyai 20 buah komputer.*

Based on the situation given, answer the following question:  
*Berdasarkan situasi yang diberi, sila jawab soalan berikut :*

What type of topology that you want to choose for the new computer lab and state **three** advantages of choosing it.

*Bentuk topologi yang manakah akan anda pilih untuk makmal baru itu dan beri **tiga** kelebihan untuk memilihnya.*

[4]

(PERLIS 2010)

**ICT Intensive Exercise Form 4 (IA1, IA2, IA3)**

Name:

IC No.:

Date:

30. Transmission Control Protocol/Internet Protocol (TCP/IP) is the network standard for internet communications.

*Protokol Kawalan Penghantaran/Protokol Antara Rangkaian (TCP/P) adalah piawaian rangkaian untuk komunikasi internet.*

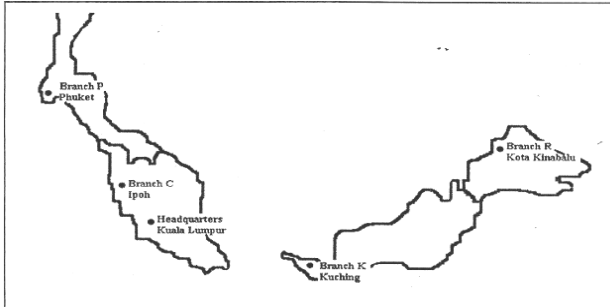
**True / False**

[1]

(SPM 2010)

31. Figure shows the location of the headquarters and branches of Company X. Company Z is a customer of Branch R.

*Rajah menunjukkan lokasi ibu pejabat dan cawangan-cawangan Syarikat X. Syarikat Z ialah pelanggan bagi Cawangan R.*



a)  
Intranet / can provide information between branch and employees.

b)  
i) Extranet

ii) More than one organization / allow suppliers / customer / business partner can reduce cost and increase efficiency.

Based on Figure:

*Berdasarkan Rajah:*

a) Explain the type of network for Company X to connect its headquarters with all its branches.

*Terangkan jenis rangkaian bagi Syarikat X untuk menghubungkan ibu pejabat dengan semua cawangannya.*

[1]

b) i) Suggest the type of private network communication technology to be used between Branch R and Company Z.

*Cadangkan jenis teknologi komunikasi rangkaian persendirian yang akan digunakan antara Cawangan R dan Syarikat Z.*

[1]

ii) Justify your answer.

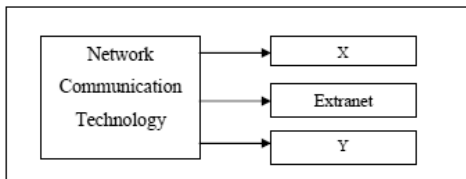
*Berikan justifikasi anda.*

[2]

(SPM 2010)

32. Figure shows three types of Network Communication Technology.

*Rajah menunjukkan tiga jenis Teknologi Komunikasi Rangkaian.*



Based on Figure

*Berdasarkan Rajah*

a) Identify network communication technology X and Y.

*Kenal pasti teknologi komunikasi rangkaian bagi X dan Y.*

[1]

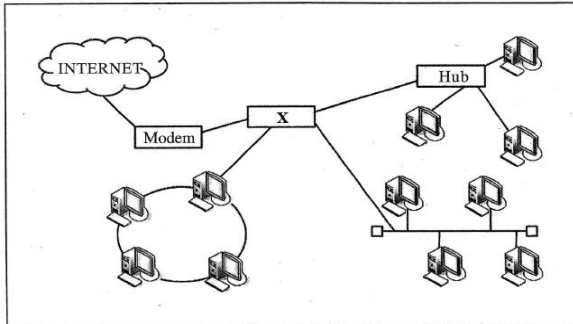
b) State **one** differences between X and Y.

*Nyatakan **satu** perbezaan di antara X dan Y.*

[1]

(N.SEMBILAN 2010)

33. Figure shows the network design used for Batu Nilam Sdn. Bhd.  
 Rajah menunjukkan reka bentuk rangkaian yang digunakan untuk Batu Nilam Sdn. Bhd.



Based on Figure, X can be used on any size of network and transmits data to the correct destination.  
 State the name of device X.

Berdasarkan Rajah, X boleh digunakan pada mana-mana saiz rangkaian dan menghantar data ke destinasi yang betul.  
 Nyatakan nama peranti X

[1]

(SPM 2010)

34. Table shows the characteristics of a cable used in a wired network system  
 Jadual menunjukkan ciri-ciri kabel yang digunakan dalam sistem rangkaian kabel

Characteristics of cable
- consists of thin strands of glass
- Terdiri dari helai tipis dari kaca
- uses light to transmit signal
- Menggunakan cahaya untuk menghantar isyarat

Based on Table, state  
 Berdasarkan Jadual, nyatakan

i) The name of the cable  
 Nyatakan nama kabel tersebut

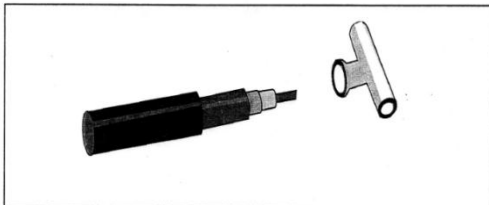
[1]

ii) The function of the cable  
 Fungsi kabel tersebut

[1]

(SPM 2008)

35. Figure shows a wired transmission medium.  
 Rajah menunjukkan satu medium penghantaran berwayar.



Based on Figure, state the name of the medium.  
 Berdasarkan Rajah, nyatakan nama medium itu.

[1]

(SPM 2009)

**ICT Intensive Exercise Form 4 (IA1, IA2, IA3)**

Name:



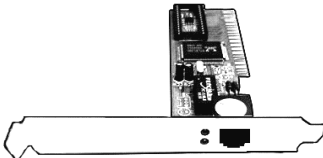
IC No.:

Date:

36. Table describes various network devices.  
*Jadual menerangkan berbagai peranti rangkaian.*

Device Peranti	Description Penerangan
P	A device which converts digital signals to analog signals and vice versa. <i>Peranti yang menukar signal digital kepada signal analog dan sebaliknya.</i>
Q	A device which contains multiple ports to receive signals and forward the signals between computers in a network. <i>Peranti yang terdiri daripada beberapa "port" untuk menerima signal dan menghantar signal di antara komputer.</i>
R	A PCI card which is used to connect a computer to a network via a UTP cable. <i>Kad PCI yang digunakan untuk menghubungkan komputer ke rangkaian melalui kabel UTP</i>
S	A PCMCIA card which is used to connect a laptop to a wireless network. <i>Kad PCMCIA yang digunakan untuk menghubungkan komputer riba ke rangkaian tanpa wayar.</i>
T	A device which allows computers and devices to transmit data wirelessly among themselves. <i>Peranti yang membenarkan komputer dan peranti menghantar data tanpa wayar dikalangnya.</i>

Match the following network devices with the correct descriptions by writing **P, Q, R, S** or **T**.  
*Padankan pernyataan peranti rangkaian berikut dengan penerangan yang betul dengan menulis P, Q, R, S atau T.*

i)		[1]
ii)		[1]
iii)		[1]

(PERAK 2010)

37. State whether the following statement is **True** or **False**.  
*Nyatakan sama ada pernyataan berikut **Benar** atau **Palsu**.*

Network Operating Systems organise and coordinate multiple user access and resource sharing on a network.

*Sistem Pengendalian Rangkaian mengurus dan menyelaras pelbagai pengguna mencapai dan berkongsi sumber pada satu rangkaian.*

[1]

(SPM 2010)

**ICT Intensive Exercise Form 4 (IA1, IA2, IA3)**

Name: \_\_\_\_\_

IC No.: \_\_\_\_\_

Date: \_\_\_\_\_

38. Table shows three categories of wireless transmission.  
*Jadual menunjukkan tiga kategori penghantaran tanpa dawai.*

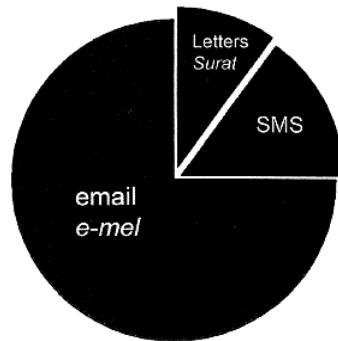
Category <i>Kategori</i>	Frequency Range <i>Julat Frekuensi</i>	Interference <i>Gangguan</i>
A	3 KHz – 1 GHz	High / Tinggi
B	1 GHz – 300 GHz	Low / Rendah
Infrared / <i>Infra merah</i>	300 GHz – 400 THz	Medium / Sederhana

Based on Table, identify category:  
*Berdasarkan Jadual, kenal pasti kategori:*

- i) A [1]
- ii) B [1]

(SPM 2009)

39. Figure is a pie chart showing how students of SMK Taman Gembira communicate with their friends.  
*Rajah adalah sebuah carta pai yang menunjukkan bagaimana pelajar-pelajar di SMK Taman Gembira berkomunikasi dengan rakan-rakan mereka.*

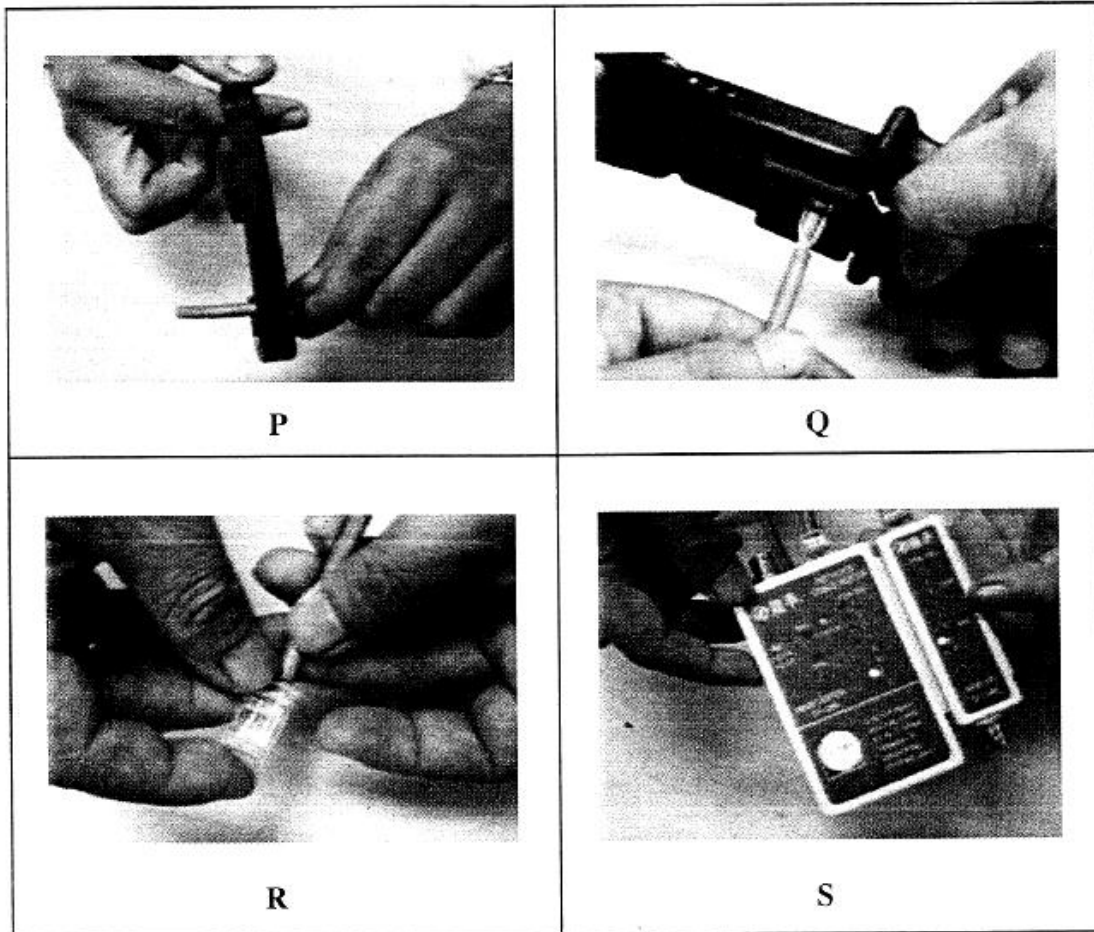


Based on Figure:  
*Berdasarkan Rajah:*

- a) State **one** reason why the students choose email to letters.  
*Nyatakan **satu** sebab mengapa pelajar-pelajar memilih e-mel daripada surat.*  
 [1]
- b) State **three** reasons why email is better than Short Messaging System using handphone.  
*Nyatakan **tiga** sebab mengapa e-mel lebih baik daripada Sistem Pesanan Ringkas menggunakan telefon bimbit.*  
 [3]

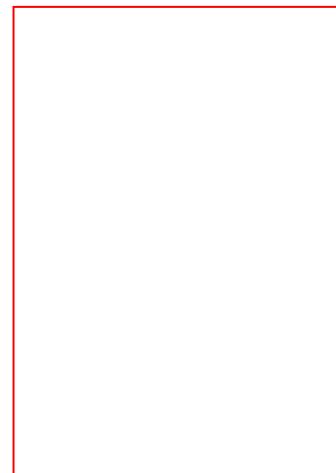
(SPM 2010)

40. Figure shows the steps taken during the crimping of a UTP cable.  
*Rajah menunjukkan langkah-langkah yang diambil semasa 'crimp' kabel UTP.*



Based on Figure, state the steps in:  
*Berdasarkan Rajah, nyatakan langkah-langkah dalam:*

- i) P  
[1]
- ii) Q  
[1]
- iii) R  
[1]
- iv) S  
[1]



(SPM 2009)

**ICT Intensive Exercise Form 4 (IA1, IA2, IA3)**

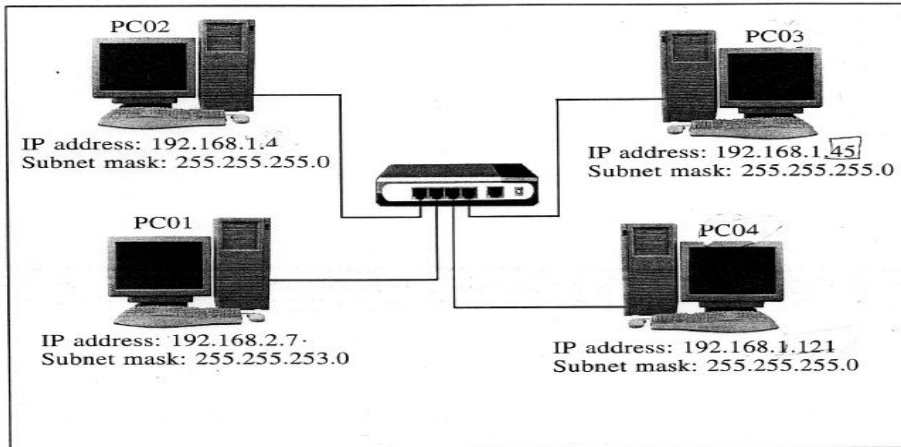
Name:

IC No.:

Date:

41. Figure shows the network configuration of four computers in a Class C network. The computers are named PC01, PC02, PC03 and PC04.

Rajah menunjukkan konfigurasi rangkaian bagi empat buah komputer dalam rangkaian kelas C. Komputer-komputer itu diberi nama PC01, PC02, PC03 dan PC04.



Based on Figure,

Berdasarkan Rajah,

a)

i) State the name of the computer that is not configured to be in the network.

*Namakan komputer yang tidak dikonfigurasi untuk berada dalam rangkaian.*

[1]

ii) Justify your answer.

*Berikan justifikasi jawapan anda.*

[1]

Figure shows the outcome of two ping processes.

Rajah menunjukkan hasil dua proses ping.

From PC02  
Daripada PC02

From PC04  
Daripada PC04

```

C:\WINDOWS\system32\cmd.exe
G:\>ping 192.168.1.45
Pinging 192.168.1.45 with 32 bytes of data:
Reply from 192.168.1.45: bytes=32 time<1ms TTL=128
Reply from 192.168.1.45: bytes=32 time<1ms TTL=128
Reply from 192.168.1.45: bytes=32 time<1ms TTL=128
Reply from 192.168.1.45: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.45:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>
    
```

```

C:\WINDOWS\system32\cmd.exe
G:\>ping 192.168.1.4
Pinging 192.168.1.4 with 32 bytes of data:
Destination host unreachable.
Destination host unreachable.
Destination host unreachable.
Destination host unreachable.
Ping statistics for 192.168.1.4:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
    
```

Based on Figure,

Berdasarkan Rajah,

b) PC04 is switched on and running correctly. Explain **two** causes of the outcome of the ping process from PC04.

*PC04 dihidupkan dan berfungsi dengan baik. Terangkan **dua** sebab terhasilnya proses ping di PC04*

[2]

(SPM 2009)

**ICT Intensive Exercise Form 4 (IA1, IA2, IA3)**

Name:

IC No.:

Date:

42. .... is one of the Internet Protocol technology that allows a user to make telephone calls using the Internet.

..... adalah salah satu teknologi Protokol Internet yang membenarkan pengguna untuk membuat panggilan telefon dengan menggunakan Internet.

[1]

(JOHOR 2010)

43. State the technology used based on the statement below;

Nyatakan teknologi yang digunakan berdasarkan pernyataan di bawah;

It is a technology that allows you to make voice calls using a broadband Internet connection instead of a regular phone line. The services convert your voice into a digital signal that travels over the Internet.

Ianya merupakan teknologi yang membenarkan anda untuk membuat panggilan menggunakan perhubungan internet jalur lebar menggantikan talian telefon biasa. Perkhidmatan ini menukarkan suara anda kepada signal digital yang melalui internet.

Based on the text name the technology.

Berdasarkan teks namakan teknologi tersebut.

[1]

(PERAK 2010)

44. .... is a network that uses a public telecommunication infrastructure, such as the Internet to remote offices or individuals with secure access to their organisation's private network.

..... adalah rangkaian yang menggunakan infrastruktur telekomunikasi awam seperti internet untuk mencapai rangkaian peribadi secara selamat.

[1]

(JOHOR 2010)

45. Which of the following wireless transmission media is used for short-range communication?

Mana antara media penghantaran tanpa wayar berikut yang digunakan untuk komunikasi jarak dekat?

- A Infrared / Infra merah
- B Radio Wave / Gelombang radio
- C Satellite / Satelit
- D Microwave / Gelombang Mikro

[1]

(TERENGGANU 2010)