Section A - [36 marks]

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

1 Figure 1 shows one type of biometric device.



Figure 1 - Rajah 1

Based on Figure 1,

- (i) State the name of the device.
- (ii) State the function of the device.
- 2 Figure 2 shows part of an algorithm for a web page filter.

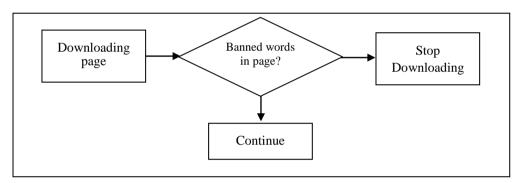


Figure 2

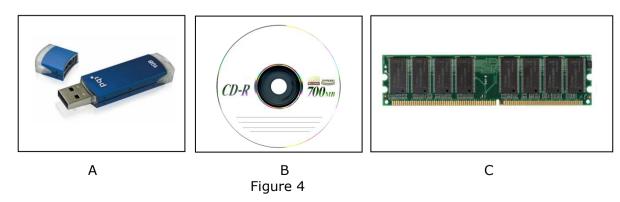
State the filtering method used in the algorithm.

Figure 3 shows a combination of 0s and 1s that represent character 'K' in ASCII coding scheme.

0 1 0 0 1 0 1 1	0	1	0	0	1	0	1	1
-------------------------------	---	---	---	---	---	---	---	---

How many bytes are used to represent character 'K'?

4 Figure 4 shows three devices that can store data.



Page | 1 3765/1

Based on Figure 4, write A, B and C to match the following:

(i) Can only hold the data temporarily. ______

(ii) Can store data permanently untul it is deleted or removed. ______

5 Which feature is available in spreadsheet software?

A Drop cap B Lookup

C Create Indexes D Query

6 Table 1 shows statements about a utility program.

Usage

- Provides functions to delete, copy, move, rename and view files.
- Formats and copies disks.
- Checks the amount of used or free program space on a storage medium

Table 1

Based on Table 1, write A, B, C or D to show whice type of utility is being described :

A diagnostic

B back up

C file management

D data recovery



- 7 State **one feature** of proprietary software that does not apply to open source software.
- 8 **Figure 5** shows a wired transmission medium.



Figure 5 - Rajah 5

Based on Figure 5, state the name of the medium.

- 9 State whether the following statement is True or False
 - (i) A server is needed in a peer to peer network
 - (ii) Data transmitted from node to node in ring topology in both direction.
- 10 Write the words that would complete the following statement:

A _____ enables a user to access information from the web sites.

11. Which of the following have a non-linear multimedia presentations?

I Movies II Computer games III Television advertisement IV Web page browser

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

12. Figure 6 shows the shows the steps during the crimping of a UTP cable.

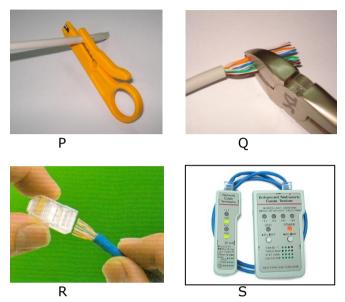


Figure 6

Based on Figure 6, state the steps in:

i) Q : _____

ii) S : _____

13. Figure 7 shows a web page.

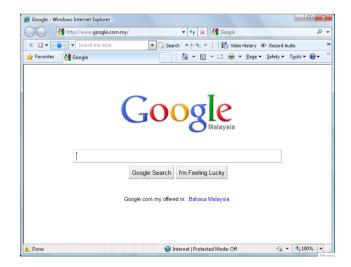


Figure 7

(i) Based on Figure 7, state the type of program used to create the web page.

(ii) HTML is used to structure the web page. State what HTML stands for.

HTML:_____

14 Figure 8 shows tasks carried out by members of a multimedia development team.

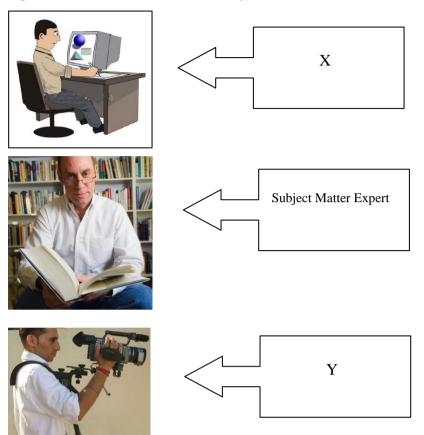


Figure 8
Based on Figure 8, state the name of the team groups in **X** and **Y**:

- (i) X:_____
- (ii) Y:_____
- 15 Write the words that would complete the following statement :

According to the _____(i)___ design principle. "Proximity" states that, things that are close together will be seen as _____(ii) _____.

16 Figure 9 shows the phases in multimedia production.

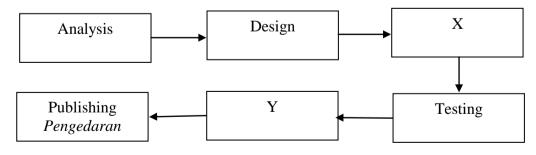


Figure 9 - Rajah 9

Based on Figure 9, identify:

(i) X : _____

Page | 4 3765/1

17	State w	hether the fo	llowing statem	nent is True or False.		
				vel programming lang anguage before execu		
18	Choose	the correct s	tatement rega	rding variables and co	nstants.	
	II Cons III Vari		itifiers gned values tl	hat may change hat may change		
			B I, II and I\ D II, III and			
19	Table 3	shows some	types of data.			
		Types	of data	Item		
		F	₹	True of False value	es	
		9	5	Whole numbers		
			Table	e 3		
	Based o	on table 3, sta	ite the types o	of data for :		
	(i) R:			(ii) S :		
20	Figure	10 shows type	es of operator.			
			OF >	+ AND	Figure	10
	Based o	on Figure 10,	state two logic	cal operators		
21.	Which structu		ving symbols	represents a decisio	n in a se	lection control
	A (B			
	C		U			

Write the words that would complete the following statement.							
	•	ng books from an examples of	online shop and selling shoes on an internet	auction site are			
23	1		mation system to help diagnose illnesses. T th facts and rules about the symptoms of illn	•			
	Base	ed on the text					
	(i)	(i) State the name of the information system					
	(ii)	State where the f	acts and rules come from				
24	State	e whether the follo	wing statement is True or False				
Delete, Filter, Insert, Upgrade and Search are basic operations of data manipulation.							
25	The	basic operation use	ed to select a few records from a database is				
	B c C f	ndex delete ilter update					
			SECTION B - [20 marks]				
This	section	on consists of five	questions. Answer all questions.				
26	Table 4 shows two types of software and information that will be used b software engineer to develop a system within a limited period of time.						
Type of software		oe of software	Information				
	Open source		Source code is free and available to user				
	Pro	prietary	Source code is copyrighted and not availlab	e to user			
	Base	ed on Table 4	Table 4				
	(i)	What type of soft	ware should he choose?	[1 mark]			
	(ii)	Give three reason	s to your answer.	[3 marks]			

27 Read the following situation:

Sam has two personel computers at home. He wants both computers to share data, files and applications using a crossed cable.

(a) (i) State the name of the type of network architecture used.

(ii) Give one feature of this type of network. [2 marks]

(b) Sketch the network architecture. [2 marks]

Figure 11 shows two editing interfaces X and Y for a web-designing workshop. More students registerd to use Y and X.

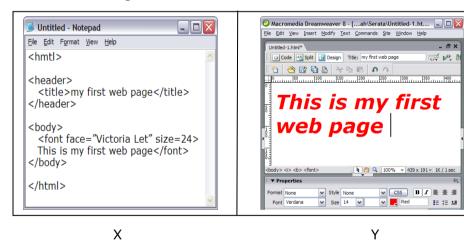


Figure 11

Based of Figure 11,

(a) Identify the type of web editor shown [2 marks]

(i) X : _____ (ii) Y : ____

(b) Give two reasons why interface Y has attracted more students than interface X [2 marks]

29 Figure 12(a) shows the input interface and Figure 12(b) shows the output interface of a program

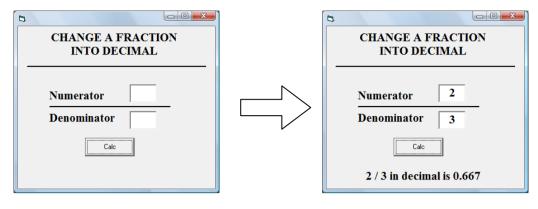
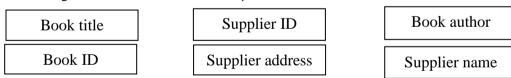


Figure 12 (b) Figure 12 (a)

Base	ed on	Figure 12(a) and Figure 12(b)	
(a)	(i)	State the data type that should be used for both interface	2
	(ii)	Give a reason for your answer.	[2 marks]
(b)	(i)	Should the Numerator declared as a constant?	
	(ii)	Give a reason for your answer.	[2 marks]

30 The following are attributes for a library database



(a) (i) Group the attributes into two related tables

(ii) Draw a line to show the relationship between the two tables.

[3 marks]

(b) State the type of relationship: _ [1 mark]

SECTION C - [14 marks]

This section consists of three questions. Answer two questions only

- (i) Question 31 is compulsory, and
- (ii) Choose either Question 32 or Question 33.
- 31. Figure 13 (a) shows the network configuration of four computers in a Class C network. The computers are named PC 01, PC02, PC03 and PC04.

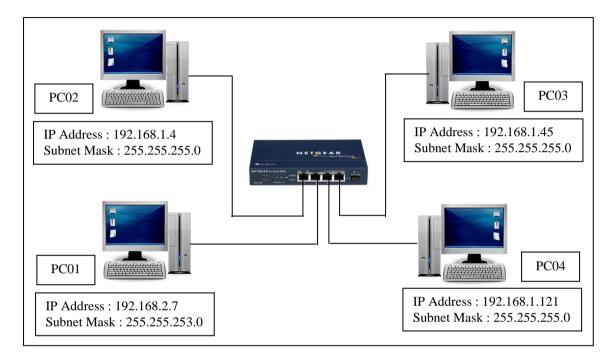


Figure 13(a)

Based on Figure 13(a)

(a)	(i)	State the name of the computer that is not configured to be in network.	the
	(ii)	Justify your answer	

[3 marks]

Page | 9 3765/1

Figure 13(b) shows the outcome of two ping processes.

```
From PC02
 C:\>ping 192.168.1.45
 Pinging 192.168.1.45 with 32 bytes of data :
 Reply from 192.168.1.45 : bytes = 32    time <1 ms TTL = 128
 Reply from 192.168.1.45 : bytes = 32  time <1 ms TTL = 128
 Reply from 192.168.1.45 : bytes = 32    time <1 ms TTL = 128
 Reply from 192.168.1.45 : bytes = 32    time <1 ms 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:\>
From PC04
 C:\>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:\>
```

Figure 13 (b)

Based on figure 13(a) and Figure 13(b),

(b)	PC04 i	is switched	on and	running	correctly.	
-----	--------	-------------	--------	---------	------------	--

Explain two caused of the outcome of the ping process from PC04.	

[4 marks]

Page | 10 3765/1

32 Figure 14 shows goods on sale in a shop



Figure 14 *Rajah 14*

Based on Figure 14, you are asked to develop a program to calculate the final price of each item.

(a)	(i)	Identify two variables.
		(a)
		(b)
	(ii)	Justify your answer. [3 marks]
(b)	Write	e the pseudo code for the program

[4 marks]

Page | 11 3765/1

33 The following are dialogue between a computer sales manager and a programmer.

Manager:
Good morning, may I see the Cyber Maju Sdn. Bhd. monthly sales for the previous months?
Can you please print it out for me?

Programmer:
What details would you like to see in the report, sir?

Please show me the sales for each model, units sold and also the total sales of those months

Programmer:
All right sir. I'll get it done as soon as possible.

Manager:
Thank you.

Based on the dialogue, prepare the report design to be generated by the Database Management System.

[7 marks]

END OF QUESTION PAPER