

SECTION B : 70 MARKS
BAHAGIAN B : 70 MARKAH

INSTRUCTION:

This section consists of **THREE (3)** structured questions. Answer **ALL** questions.

ARAHAN:

Bahagian ini mengandungi TIGA (3) soalan berstruktur. Jawab semua soalan.

QUESTION 1

SOALAN 1

CLO1
C1

- (a) List **TWO (2)** categories of the operating system.

Senaraikan DUA (2) kategori sistem pengoperasian.

[2 marks]

[2 markah]

CLO1
C2

- (b) Identify the type of user interface in operating system for X, Y and Z based on the user's requirement in Table 2.0 below.

Kenal pasti antaramuka pengguna dalam sistem operasi bagi X, Y dan Z berdasarkan keperluan pengguna dalam Jadual 2.0 di bawah.

Table 2.0 /Jadual 2.0

User	Requirement	Type of Interface
New Students	Interact with programs without the need of typing commands	X
Programmers	Enter commands to the program in the form of text.	Y
Blind people	Provide hands-free and eyes-free interfaces in mobile for many situations.	Z

[3 marks]

[3 markah]

CLO1
C1

- (c) Identify type of memory for E, F and G in Figure B1(c).

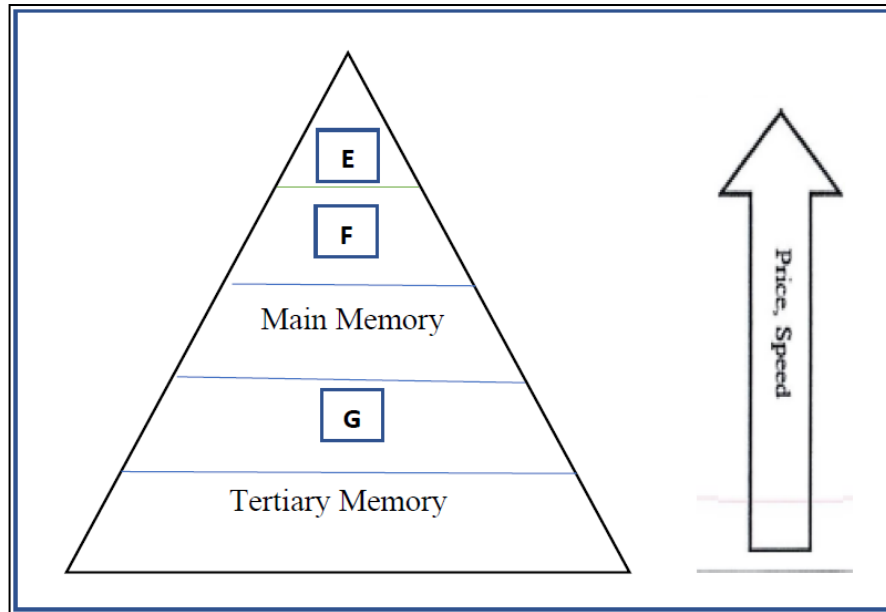
Kenal pasti jenis memory untuk, F dan G pada Rajah B1(c).

Figure B1(c)/ Rajahl B1(c)

[3 marks]

[3 markah]

CLO1
C1

- (d) List all the memory management strategies.

Senaraikan semua strategi pengurusan memori.

[3 marks]

[3 markah]

CLO1
C2

- (e) Explain any
- THREE (3)**
- of the different states in which a process can exist at any given time.

*Terangkan mana-mana **TIGA (3)** daripada keadaan yang berbeza di mana suatu proses boleh wujud pada masa tertentu.*

[6 marks]

[6 markah]

CLO1
C2

- (f) Based on Table 3.0, determine Waiting Time for process A, B, C & D using Priority scheduling algorithm when the Arrival Time for all process is at 0 ms.

Berdasarkan Jadual 3.0, tentukan masa menunggu untuk proses A, B dan C menggunakan Algoritma Penjadualan Keutamaan apabila Masa Ketibaan untuk semua proses adalah pada 0 ms.

Table 3.0/ Jadual 3.0

Process	Burst time (ms)	Priority
A	7	3
B	11	1
C	2	2
D	4	2

[4 marks]

[4 markah]

CLO1
C2

- (g) Explain **ONE (1)** difference each between preemptive scheduling and non-preemptive scheduling with examples.

*Terangkan **SATU (1)** perbezaan setiap satu antara penjadualan preemptive dan bukan preemptive berserta contoh.*

[4 marks]

[4 markah]

QUESTION 2**SOALAN 2**CLO1
C1

- (a) List
- THREE (3)**
- directory structures in file management.

*Senaraikan **TIGA (3)** struktur direktori dalam pengurusan fail.*

[3 marks]

[3 markah]

CLO1
C2

- (b) Outline
- ONE (1)**
- advantage and disadvantage of each bit-map and linked list regarding free space management techniques.

*Gariskan **SATU (1)** kelebihan dan kekurangan setiap peta bit dan senarai terpaut mengenai teknik pengurusan ruang bebas.*

[4 marks]

[4 markah]

CLO1
C2

- (c) Illustrate the indexed file allocation according to Table 4.0 given below.

*Jelaskan peruntukan fail diindeks untuk Jadual 4.0 yang diberikan di bawah.*Table 4.0/ *Jadual 4.0*

File	Indexed Block
Operating System	6
Indexed Point Nod: 29, 9, 1, 32, 21, 26	

[4 marks]

[4 markah]

- CLO1
C2
- (d) Explain **FOUR (4)** operations of a file that can be controlled.
*Terangkan **EMPAT (4)** operasi fail yang boleh dikawal.*
- [4 marks]
[4 markah]
- CLO1
C1
- (e) State **TWO (2)** Windows 10 operating system edition.
*Nyatakan **DUA (2)** edisi sistem pengendalian Windows 10.*
- [2 marks]
[2 markah]
- CLO1
C2
- (f) Give example of each edition that you have stated in question Q2(e).
Berikan contoh setiap edisi yang telah anda nyatakan dalam soalan Q2(e).
- [2 marks]
[2 markah]
- CLO1
C2
- (g) Windows Security is your home to manage tools that protect your device and your data. Explain **FIVE (5)** Windows security in Microsoft Windows 10.
*Windows Security ialah tempat anda untuk mengurus alatan yang melindungi peranti anda dan data anda. Terangkan **LIMA (5)** keselamatan Windows dalam Microsoft Windows 10.*
- [5 marks]
[5 markah]
- CLO1
C2
- (h) Distinguish **THREE (3)** ways that Windows 10 32-bits differs from Windows 10 64-bits respectively.
*Bezakan **TIGA (3)** cara Windows 10 32-bit berbeza daripada Windows 10 64-bit masing-masing.*
- [6 marks]
[6 markah]

QUESTION 3**SOALAN 3**

- CLO1
C1 (a) Name **THREE (3)** primary Mobile Operating System that have been manufactured

*Namakan **TIGA (3)** Sistem Operasi Mudah Alih utama yang telah dihasilkan.*

[3 marks]

[3 markah]

- CLO1
C1 (b) Identify **THREE (3)** items which available on Home Screen of Android devices.

*Kenal pasti **TIGA (3)** item yang tersedia pada Skrin Utama peranti Android.*

[3 marks]

[3 markah]

- CLO1
C2 (c) Explain **TWO (2)** main methods for installing content on mobile devices.

*Terangkan **DUA (2)** kaedah utama untuk memasang kandungan pada peranti mudah alih.*

[3 marks]

[3 markah]

- CLO1
C2 (d) Show at least **SIX (6)** steps to place apps into a folder in iOS devices.

*Tunjukkan sekurang-kurangnya **ENAM (6)** langkah untuk meletakkan aplikasi ke dalam folder dalam peranti iOS.*

[6 marks]

[6 markah]

SOALAN TAMAT