## 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) State **TWO (2)** examples of Linux Distributions.
    *Nyatakan **DUA (2)** contoh Linux Distributions.*

[2 marks]
[*2 markah*]

CLO1
C1

(b) Identify **TWO (2)** examples of Linux Boot Loader.
    *Nyatakan **DUA (2)** contoh Linux Boot Loader.*

[2 marks]
[*2 markah*]

CLO1
C2

(c) Explain Linux advantages based on Open Source characteristic.
    *Terangkan kelebihan Linux berdasarkan ciri-ciri sumber terbuka.*

[3 marks]
[*3 markah*]

CLO1
C2

(d) Discuss the first stage in Linux booting process.
    *Bincangkan peringkat pertama dalam proses but Linux.*

[3 marks]
[*3 markah*]

CLO1
C1

(e) State **THREE (3)** ways to get into Shells.
    *Nyatakan **TIGA(3)** cara untuk masuk ke Shells.*

[3 marks]
[*3 markah*]

CLO1
C1

(f) List **THREE (3)** desktop environments commonly used in Linux.

*Senaraikan **TIGA (3)** persekitaran desktop yang biasa digunakan dalam Linux.*

[3 marks]

[*3 markah*]

CLO1
C2

(g) Explain the function of export based on Figure B1(g).

*Terangkan fungsi* export *di dalam Rajah B1(g).*

```
kef@kef-VirtualBox:~$ export FIRST_NAME
```

Figure B1(g)/ *Rajah B2(g)*

[2 marks]
[*2 markah*]

CLO1
C2

(h) Identify appropriate command to solve the error based on Figure B1(h).
*Kenal pasti arahan yang sesuai untuk menyelesaikan ralat berdasarkan Rajah B1(h).*

```
arthur02@ubuntu:~$ read name
Ahmad Albab
arthur02@ubuntu:~$ Echo hello $name

Command 'Echo' not found, did you mean:
```

Figure B1(h)/ *Rajah B1(h)*

[2 marks]
[*2 markah*]

CLO1
C2

(i) Interpret outputs of metacharacters based on Figure B4(i).
*Tafsirkan output bagi* metacharaters *di dalam Rajah B4(i).*

```
kef@kef-VirtualBox:~$ ls [a-c]*
```
Figure B1(i)/ *Rajah B1(i)*

[2 marks]
[*2 markah*]

CLO1
C2

(j) Show the command to display username and user home directory.
*Tunjukkan arahan untuk memaparkan nama pengguna dan* home directory.

[2 marks]
[*2 markah*]

**QUESTION 2**
*SOALAN 2*

CLO1
C1

(a) List **THREE (3)** main directories in Linux File System Hierarchy Standard.
*Nyatakan **TIGA (3)** direktori utama dalam Linux File System Hierarchy Standard.*

[3 marks]
[*3 markah*]

CLO1
C1

(b) State **THREE (3)** change directory command to return home directory.
*Nyatakan **TIGA (3)** arahan untuk pengguna kembali ke home directory.*

[3 marks]
[*3 markah*]

Question 2(c) and 2(d) refer to Figure B2 (c).

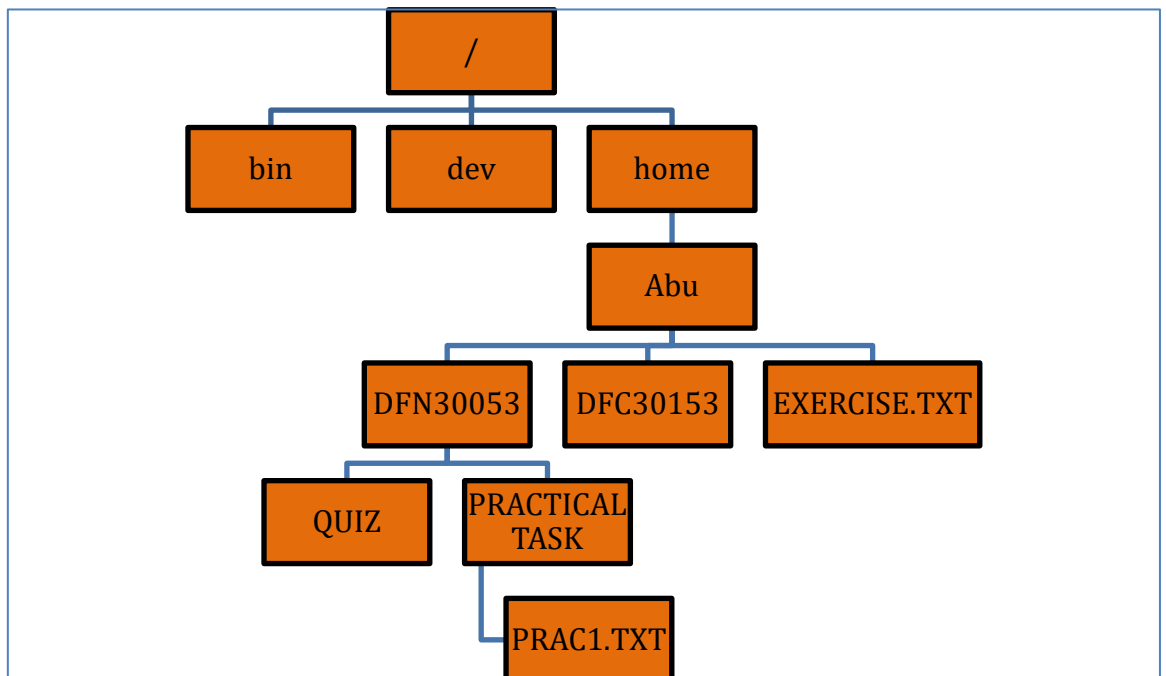*Soalan 2(c), dan 2(d)  merujuk kepada Rajah B2 (c).*



Figure B2(c)/ *Rajah B2(c)*

CLO1
C2

(c) Identify the command to change directory from QUIZ directory to home directory
using relative pathname.

*Kenal pasti arahan untuk menukar direktori daripada direktori QUIZ kepada home
directory nama laluan relative.*

[2 marks]
[*2 markah*]

(d) Show the command to delete directory DFC30153.
*Tunjukkan arahan untuk memadam direktori DFC30153.*

[4 marks]
[4 *markah*]

CLO1
C2

(e) Discuss **TWO (2)** differences between relative pathname and absolute pathname.

*Bincangkan **DUA (2)** perbezaan di antara nama relative pathname dan nama pathname.*

[4 marks]
[*4 markah*]

CLO1
C2

(f) Describe the function of mkdir and mv commands in Linux and give one example for each command.

*Terangkan fungsi arahan mkdir dan mv dalam Linux dan berikan satu contoh bagi setiap arahan.*

[4 marks]
[*4 markah*]

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**QUESTION 3**
*SOALAN 3*

Question 3(a),3(b) and 3(c) refer to Figure B3(a).
*Soalan 3(a),3(b) dan 3(c) merujuk kepada Rajah B3(a).*

```
-rw-rw-r-- 1 kef kef 23 Apr 12 10:43 fileA.txt
```
Figure B3(a)/ *Rajah B3(a)*

CLO1
C2

(a)  Explain permission of fileA.txt .

*Jelaskan kebenaran bagi* fileA.txt

[3 marks]
[*3 markah*]

CLO1
C2

(b) Identify the command to change the group ownership to DDT3C.

*Kenal pasti arahan untuk mengubah pemilikan kumpulan kepada* DDT3C.

[4 marks]
[*4 markah*]

CLO1
C2

(c) Show the command to prevent group and other from file modification.

*Tunjuukkan arahan untuk mengelakkan fail diubahsiai oleh kumpulan dan pengguna lain.*

[3 marks]
[*3 markah*]

CLO1
C1

(d) State **TWO (2)** examples Linux Journaling File system.

*Nyatakan **DUA (2)** contoh sistem* Linux Journaling File.

[2 marks]
[*2 markah*]

CLO1
C1

(e) List **TWO (2)** example of the Linux Software Packaging.

*Senaraikan **DUA (2)** contoh bagi* Linux Software Packaging.

[2 marks]
[*2markah*]

CLO1
C2

(f) Explain Linux swap partition with the recommended size.

*Terangkan* partition swap Linux *dengan size yang disyorkan.*

[2 marks]
[*2markah*]

Question 3(g), 3(h) and 3(i) refer to Figure B3(g).

*Soalan 3(g),3(h) and 3(i) berdasarkan Rajah B3(g).*

```
eth0      Link encap:Ethernet  HWaddr 08:00:27:db:7f:be
          inet addr:10.0.2.15  Bcast:10.0.2.255  Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fedb:7fbe/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:799 errors:0 dropped:0 overruns:0 frame:0
          TX packets:664 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:329787 (329.7 KB)  TX bytes:193084 (193.0 KB)
```

Figure B3(g)/ *Rajah B3(g)*

CLO1
C2

(g) Show an IP address and gateway to the network interfaces.

*Tunjukkan alamat* IP *dan* gateway *kepada antara muka rangkaian.*

[4 marks]
[*4 markah*]

CLO1
C2

(h) Identify the command to check the host status and defined the packet size to 3.

*Kenal pasti arahan untuk menyemak status hos dan tentukan saiz paket kepada 3.*

[3 marks]
[*3 markah*]

CLO1
C2

(i) Identify the command to prevent connecting the network through the first Ethernet interface in your system.

*Kenal pasti arahan untuk menghalang sambungan rangkaian melalui papan antaramuka* Ethernet *pertama dalam sistem anda*

[3 marks]
[*3 markah*]

**SOALAN TAMAT**