Task 1

- a) amazon.co.uk
- b) UTeM
- c) Shell

a(ii)

```
C:\Users\PeiKang>nslookup -type=NS amazon.co.uk
Server: ns8.maxis.net.my
Address: 2001:d08:10:201::10

Non-authoritative answer:
amazon.co.uk nameserver = ns2.amzndns.com
amazon.co.uk nameserver = ns1.amzndns.co.uk
amazon.co.uk nameserver = ns1.amzndns.co.uk
amazon.co.uk nameserver = ns2.amzndns.org
amazon.co.uk nameserver = ns2.amzndns.co.uk
amazon.co.uk nameserver = ns2.amzndns.org
amazon.co.uk nameserver = ns1.amzndns.net
amazon.co.uk nameserver = ns1.amzndns.com

C:\Users\PeiKang>
```

C:\Users\PeiKang>nslookup www.utem.edu.my
Server: ns8.maxis.net.my
Address: 2001:d08:10:201::10

Non-authoritative answer:
Name: www.utem.edu.my
Addresses: 64:ff9b::67c6:341f
103.198.52.31

C:\Users\PeiKang>nslookup -type=NS www.utem.edu.my
Server: ns8.maxis.net.my
Address: 2001:d08:10:201::10

utem.edu.my
 primary name server = utem01.utem.edu.my
 responsible mail addr = zainudinsalleh.utem.edu.my
 serial = 2023032901
 refresh = 10800 (3 hours)
 retry = 900 (15 mins)
 expire = 604800 (7 days)
 default TTL = 10800 (3 hours)

c(i) C:\Users\PeiKang>nslookup www.shell.com

Server: ns8.maxis.net.my

Address: 2001:d08:10:201::10

Non-authoritative answer:

Name: e11738.dscb.akamaiedge.net Addresses: 2001:d08:11:ba1::2dda

2001:d08:11:b8c::2dda

118.214.32.116

Aliases: www.shell.com

www.shell.com.edgekey.net

```
C:\Users\PeiKang>nslookup -type=NS www.shell.com
Server: ns8.maxis.net.my
Address: 2001:d08:10:201::10

Non-authoritative answer:
www.shell.com canonical name = www.shell.com.edgekey.net
www.shell.com.edgekey.net canonical name = e11738.dscb.akamaiedge.net

dscb.akamaiedge.net
    primary name server = n0dscb.akamaiedge.net
    responsible mail addr = hostmaster.akamai.com
    serial = 1684501459
    refresh = 1000 (16 mins 40 secs)
    retry = 1000 (16 mins 40 secs)
    expire = 1000 (16 mins 40 secs)
    default TTL = 1800 (30 mins)
```

Task2

1) User Datagram Protocol, Src Port: 65024, Dst Port: 53

-Two IP addresses are the SAME

```
v Queries
v analytics.ietf.org: type AAAA, class IN

Name: analytics.ietf.org
[Name Length: 18]
[Label Count: 3]
Type: AAAA (IPv6 Address) (28)
Class: IN (0x0001)
```

-Type: AAAA(IPv6Address)

4)

(i) analytics.ietf.org: type CNAME, class IN, cname analytics.ietf.org.cdn.cloudflare.net
 Name: analytics.ietf.org
 Type: CNAME (Canonical NAME for an alias) (5)
 Class: IN (0x0001)
 Time to live: 1800 (30 minutes)
 Data length: 39

CNAME: analytics.ietf.org.cdn.cloudflare.net

Task 3

1) > User Datagram Protocol, Src Port: 58085, Dst Port: 53

-It is my default local DNS server

V Queries
V www.mit.edu: type A, class IN
Name: www.mit.edu
[Name Length: 11]
[Label Count: 3]
Type: A (Host Address) (1)
Class: IN (0x0001)

-Type: A(Host Address)

4) - 3 Answers

Answers Name: www.mit.edu Type: CNAME (Canonical NAME for an alias) (5) Class: IN (0x0001) Time to live: 1800 (30 minutes) Data length: 25 CNAME: www.mit.edu.edgekey.net ✓ www.mit.edu.edgekey.net: type CNAME, class IN, cname e9566.dscb.akamaiedge.net Name: www.mit.edu.edgekey.net Type: CNAME (Canonical NAME for an alias) (5) Class: IN (0x0001) Time to live: 60 (1 minute) Data length: 24 CNAME: e9566.dscb.akamaiedge.net essoo.asco.akamarcage.net • e9566.dscb.akamaiedge.net: type A, class IN, addr 104.111.167.128 Name: e9566.dscb.akamaiedge.net Type: A (Host Address) (1) Class: IN (0x0001) Time to live: 20 (20 seconds) Data length: 4 Address: 104.111.167.128

5)

