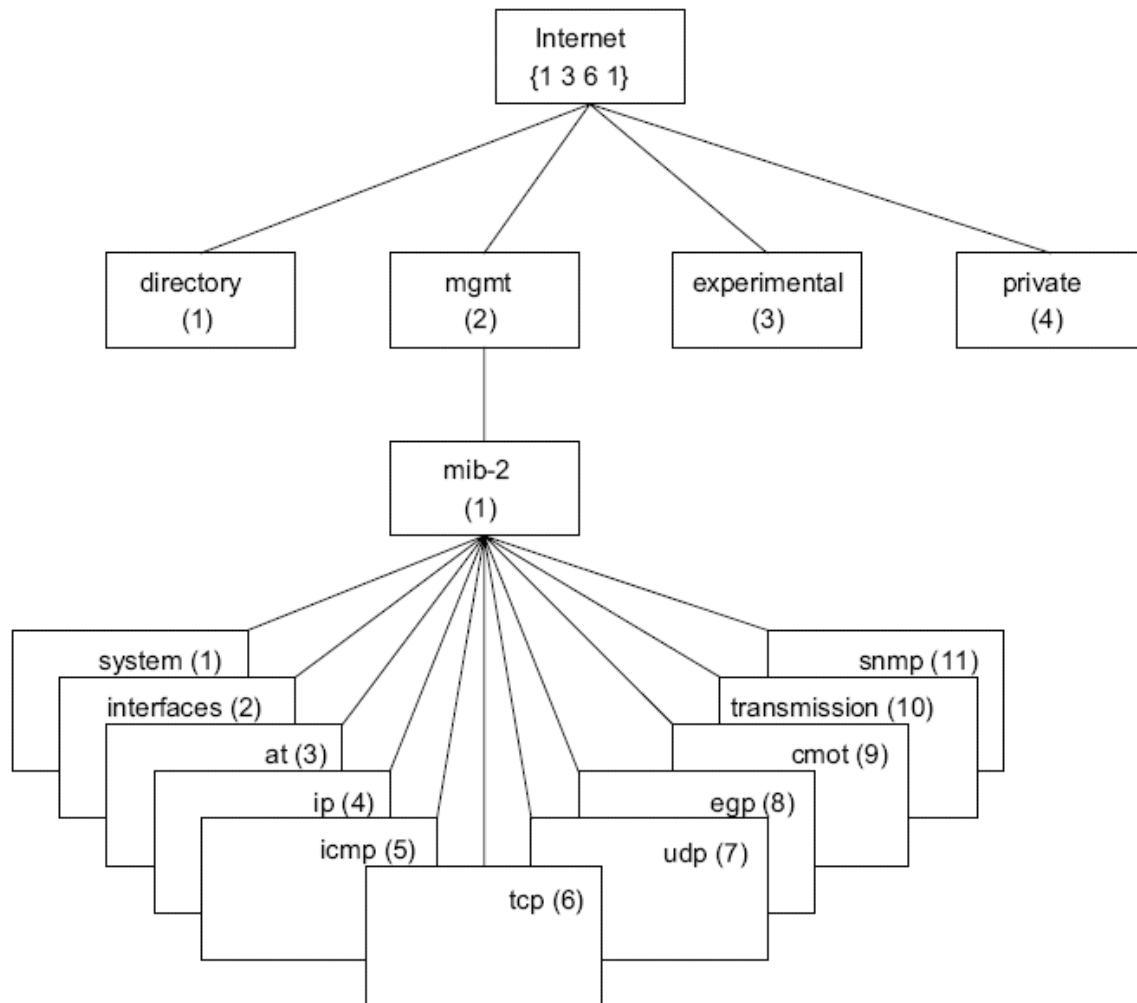


# NET311 – Homework 3

1. Show with calculations the value of sysUpTime = 2475380437 in days: hours: minutes: seconds: hundredths of second. Note that the value is in 1/100 second.

أثبت بالحسابات القيمة بعدد الأيام والساعات والدقائق والثواني ومئوية الثانية مع العلم أن القيمة هي بوحدة ١/١٠٠ من الثانية.

2. Using the following tree diagram



**Figure 4.26** Internet MIB-II Group

write the **ASN.1 definitions** of the following elements

- mib-2
- experimental
- icmp
- udp

3. Using the figure in the previous problem, represent as **OID** starting from **root**:

- a. icmp in numeric (أرقام) format.
- b. tcp in alphabetic (حروف) format.
- c. udp in hybrid (مختلط) format.

Note that alphabetic OID of internet is **.iso.org.dod.internet**.

4. Redraw the following table filling each cell in the table with an object instance identifier. Use N = 1.3.6.1.2.1.4.22.1 for **ipNetToMediaEntry** in the table.

ipNetToMediaIndex	ipNetToMediaPhysAddress	ipNetToMediaNetAddress	ipNetToMediaType
1	0x00000C3920AF	172.16.49.1	4
2	0x00000C3920B0	172.16.52.1	4

5. Using the following ASN.1 definition

IpAddress ::= OCTET STRING (SIZE (4))

Encode the IP address 192.168.100.9 using BER encoding rule. The hex type code of IpAddress in is 0x40.

6. MIB module comprises three parts, what are they?

تتألف وحدة MIB من ثلاثة أجزاء، ما هي؟