

Asn 15

10.1

2) a, b, d, f

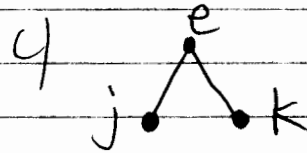
4) a/a b/a, b, d, e, g, h, i, o

c/c, f, j, k, l, m, n, p, q, r, s d/ None

e/d f/p g/g, b, a h/e, f, g, j, k, l, m

b/no 10) a/ The whole tree in Exercise 4.

b) c



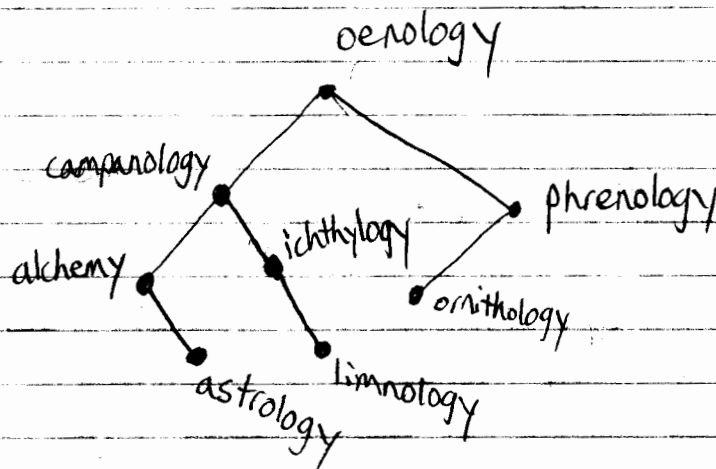
18) 501 vertices

28) leaves = m^h

$$\text{vertices} = m^0 + m^1 + m^2 + \dots + m^h$$

10.2

2)

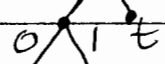


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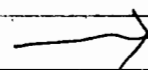
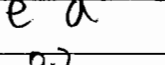
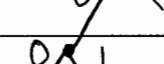
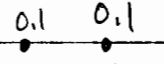
6/



9



26



26) a) A: 000 B: 001 C: 10 D: 11 E: 01

A: 00 B: 11 C: 10 D: 011 E: 010

$$b) 3 \cdot 0.4 + 3 \cdot 0.2 + 2 \cdot 0.2 + 2 \cdot 0.1 + 2 \cdot 0.1 \\ = 2.6 \text{ avg}$$

$$2 \cdot 0.4 + 2 \cdot 0.2 + 2 \cdot 0.2 + 3 \cdot 0.1 + 3 \cdot 0.1 \\ = 2.2 \text{ avg}$$

10.3

8) a, b, d, e, i, j, m, n, o, c, f, g, h, k, l, p

10) d, b, f, e, g, a, c

14) d, i, m, n, o, j, e, b, f, g, k, p, l, h, c, a