Course Name & Section_____ Date_____

Student's Name Ameer Hamza _____ Roll No 23L-8025 Signature_____

Question #01

given binary heap
of size n, find height f

Answer

$$size = n \qquad \times \quad {}^0\!/_{\!2}$$

$$Height = \frac{size}{3}$$

$$= \frac{6}{3} = 2$$

$$= \frac{9}{3} = 3$$

Question #02

Heap Sortr

```
void heapsort (int right, int bottom)
{

    int    leftchild = 2*i + 1;  ✓
    int    rightchild = 2*i + 2;

    if (leftchild < bottom)
    If (leftchild == bottom)
    {
        maxchild = leftchild;
    }
    Else
    if (Elements[leftchild] >= Element[rightchild])
    {

        leftchild = maximumchild;

    }
                    Heapify funtr
```