University of Engineering and Technology

**DSA Lab Assignment# 2**

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**Submitted To:**

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**Question 1:**

---------------------------------------------------------(1)

Putting n=1 in equation 1

4 c (2)

2c

Taking c=2 and n=1

Is a Big-oh condition

**Question 2:**

---------------------------------------------------(i)

Putting n=1 in (i)

(

1+4 c(1)

5c

Now putting n=1 and c=5 in (i)

(1

1+45(1)

55 Proved

Hence, is Big-Omega of at n=1 & c=5.

**Question 3:**

If n=1