## National University of Computer and Emerging Sciences, Lahore Campus



Data Structures	Course Code:	CS218
	Semester:	Fall 2022
	Total Marks:	10
	Weight	
D	Page(s):	1
2	Roll No:	
Quiz 3(a)	Section:	D .
	Data Structures BS(Computer Science) 10 Minutes 20-Oct-22 D Quiz 3(a)	BS(Computer Science) Semester: Total Marks: 20-Oct-22 Weight Page(s): Roll No:

What is the functionality of following recursive function? Give your answer in 2 lines only also compute its answer for n=27

int funl (int n) if(n == 1)return 0; return 1 + fun1(n/2); }

```
for of random n= 40
                                                                                           n= 105
      n= 40

    \begin{array}{r}
      1 + fw1(20) \\
      1 + 1 + fw(10) \\
      1 + 1 + 1 + fw(5) \\
      1 + 1 + 1 + 1 + fw(2) \\
      1 + 1 + 1 + 1 + 1 + fw(1)
    \end{array}

    answer = 5.
```

if imput is 27 Will be 4 answei

it is computing logen it gives the answer in whole number of logen

School of Computer SciencePage 1