

Class Test (1) Examination: Fall-2026**Course Code: CIS 132****Course Title: Algorithms****Time: 30 Minutes****Total Marks: 15**

1.	What is algorithm? Discuss the types of algorithms with examples.	[5]
2.	Calculate the time complexity of the following code: <pre> a) i = 1 while (i < n): i /= 2 printf("Hello") </pre>	[5]
3.	Calculate the time complexity of the pseudocode below using the recursive tree method. <pre> fib(n) { if n==0; return 0; else if n==1; return 1; else return fib(n-1) + fib(n-2); } </pre>	[5]