THE LNM INSTITUTE OF INFORMATION TECHNOLOGY, JAIPUR QUIZ II Solution

Computer Programming		
Time: 45 Minutes	Full Marks: 20(2*10)	
Name	Roll No:	
Important Points 1. Write explanation for each answer else no marks will be awarded 2. See the below if error mention it, else write output for same		
1. 1. #define int char main() { int i=65; printf("sizeof(i)=%d",sizeof(i)); } **** sizeof function return space for variable. Assume int = 2 byte, float = 4 byte, char = 1 byte ********	Answer: sizeof(i)=1 Explanation: Since the #define replaces the string int by the macro char	
<pre>2. main() { int i=0; for(;i++;printf("%d",i)); printf("%d",i); }</pre>	Answer: 1 Explanation: before entering into the for loop the checking condition is "evaluated". Here it evaluates to 0 (false) and comes out of the loop, and i is incremented (note the semicolon after the for loop).	
3. main() { int i; printf("%d",scanf("%d",&i)); // value 10 is given as input here }	Answer: 1 Explanation: Scanf returns number of items successfully read and not 1/0. Here 10 is given as input which should have been scanned successfully. So number of items read is 1.	
<pre>4.</pre>	Answer: I'm the greatest Explanation: Main() call show() and execute printf() function.	
5. void main() {	Answer: here in 3 6	

Explanation:

char a[]=" $12345\0$ ";

<pre>int i=strlen(a); printf("here in 3 %d\n",++i); }</pre>	The char array 'a' will hold the initialized string, whose length will be counted from 0 till the null character. Hence the 'I' will hold the value equal to 5, after the pre-increment in the printf statement, the 6 will be printed.
6. void main() {	Answer: Ok here Explanation: Printf will return how many characters does it print. Hence printing a null character returns 1 which makes the if statement true, thus "Ok here" is printed.
7. void main() { static int i=i++, j=j++, k=k++; printf("i = %d j = %d k = %d", i, j, k); }	Answer: i = 1 j = 1 k = 1 Explanation: Since static variables are initialized to zero by default.
8. void main() {	Answer: Garbage value, 1 Explanation: The inner printf executes first to print some garbage value. The printf returns no of characters printed and this is 1. The outer printf prints something and so returns a non-zero value. So it encounters the break statement and comes out of the while statement.
9. void main() {	Answer: Compiler error: unknown type integer
10. #include <stdio.h> void main() { int arr[10] = {1,2,3,4,5}; printf("%d", arr[5]); }</stdio.h>	Answer: 0 Explanation: remaining array index element are initialized by zero.