

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : B.E/ECE	Year / Semester :II/III	Format No.	NAC/TLP-07a.13
Subject Code :EC8393	Subject Name :Fundamentals of Data Structures in C	Rev. No.	02
Unit No :1	Unit Name : C Programming Basics	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

S. No.	Objective Questions (MCQ /True or False / Fill up with Choices)	BTL
1.	Which of the following is not a valid C variable name? a) int number; b) float rate; c) int variable_count; d) int \$main;	L2
2.	All keywords in C are in _____ a) LowerCase letters b) UpperCase letters c) CamelCase letters d) None of the mentioned	L4
3.	What will be the output of the following C code? <pre> 1. #include <stdio.h> 2. int main() 3. { 4. int a[5] = { 1, 2, 3, 4, 5 }; 5. int i; 6. for (i = 0; i < 5; i++) 7. if ((char)a[i] == '5') 8. printf("%d\n", a[i]); 9. else 10. printf("FAIL\n"); 11. } </pre> a) The compiler will flag an error b) The program will compile and print the output 5 c) The program will compile and print the ASCII value of 5 d) The program will compile and print FAIL for 5 times	L5
4.	Which of the following is a User-defined data type? a) typedef int Boolean; b) typedef enum { Mon, Tue, Wed, Thu, Fri } Workdays; c) struct { char name[10], int age}; d) all of the mentioned	L1
5.	What is the size of an int data type? a) 4 Bytes b) 8 Bytes c) Depends on the system/compiler d) Cannot be determined	L3
6.	Which of the following statement is false? a) Constant variables need not be defined as they are declared and can be defined later b) Global constant variables are initialized to zero c) const keyword is used to define constant values d) You cannot reassign a value to a constant variable	L5
7.	Which of the following statement is false? a) A variable defined once can be defined again with different scope b) A single variable cannot be defined with two different types in the same scope	L1

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	<p>c) A variable must be declared and defined at the same time d) A variable refers to a location in memory</p>	
8.	<p>The name of the variable used in one function cannot be used in another function. a) True b) False</p>	L1
9.	<p>What will be the output of the following C code?</p> <pre style="background-color: #f0f0f0; padding: 10px;"> 1. #include <stdio.h> 2. int main() 3. { 4. int i = 3; 5. int l = i / -2; 6. int k = i % -2; 7. printf("%d %d\n", l, k); 8. return 0; 9. }</pre> <p>a) Compile time error b) -1 1 c) 1 -1 d) Implementation defined</p>	L1
10.	<p>What will be the output of the following C code?</p> <pre style="background-color: #f0f0f0; padding: 10px;"> 1. #include <stdio.h> 2. void main() 3. { 4. int y = 3; 5. int x = 5 % 2 * 3 / 2; 6. printf("Value of x is %d", x); 7. }</pre> <p>a) Value of x is 1 b) Value of x is 2 c) Value of x is 3 d) Compile time error</p>	L3
11.	<p>What will be the final value of j in the following C code?</p> <pre style="background-color: #f0f0f0; padding: 10px;"> 1. #include <stdio.h> 2. int main() 3. { 4. int i = 0, j = 0; 5. if (i && (j = i + 10)) 6. //do something 7. ; 8. }</pre> <p>a) 0 b) 10 c) Depends on the compiler d) Depends on language standard</p>	L5

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12.	<p>What will be the output of the following C code?</p> <pre style="background-color: #f0f0f0; padding: 10px;"> 1. #include <stdio.h> 2. void main() 3. { 4. int a = 5, b = -7, c = 0, d; 5. d = ++a && ++b ++c; 6. printf("\n%d%d%d%d", a, b, c, d); 7. }</pre> <p>a) 6 -6 0 0 b) 6 -5 0 1 c) -6 -6 0 1 d) 6 -6 0 1</p>	L5
13.	<p>What will be the output of the following C code?</p> <pre style="background-color: #f0f0f0; padding: 10px;"> 1. #include <stdio.h> 2. int main() 3. { 4. int x = 2, y = 2; 5. int z = x ^ y & 1; 6. printf("%d\n", z); 7. }</pre> <p>a) 1 b) 2 c) 0 d) 1 or 2</p>	L4
14.	<p>What will be the output of the following C code?</p> <pre style="background-color: #f0f0f0; padding: 10px;"> 1. #include <stdio.h> 2. int main() 3. { 4. int x = 0; 5. if (x++) 6. printf("true\n"); 7. else if (x == 1) 8. printf("false\n"); 9. }</pre> <p>a) true b) false c) compile time error d) undefined behaviour</p>	L5
15.	<p>Which of the following is an invalid if-else statement?</p> <p>a) if (if (a == 1)){} b) if (func1 (a)){} c) if (a){} d) if ((char) a){}</p>	L1

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16.		<p>What will be the output of the following C code?</p> <pre style="background-color: #f0f0f0; padding: 5px;"> 1. #include <stdio.h> 2. void main() 3. { 4. int k; 5. for (k = -3; k < -5; k++) 6. printf("Hello"); 7. }</pre> <p>a) Hello b) Infinite hello c) Run time error d) Nothing</p>	L3
17.		<p>What is an example of iteration in C?</p> <p>a) for b) while c) do-while d) all of the mentioned</p>	L4
18.		<p>How many times while loop condition is tested in the following C code snippets, if i is initialized to 0 in both the cases?</p> <pre style="background-color: #f0f0f0; padding: 5px;"> 1. while (i < n) 2. i++; 3. _____ 4. do 5. i++; 6. while (i <= n);</pre> <p>a) n, n b) n, n+1 c) n+1, n d) n+1, n+1</p>	L2
19.		<p>Which loop is most suitable to first perform the operation and then test the condition?</p> <p>a) for loop b) while loop c) do-while loop d) none of the mentioned</p>	L1
20.		<p>The parameter control string in the printf () is a C String that contains text to be _____</p> <p>a) taken from a standard output device b) written on to the standard output device c) received from the standard output device d) nothing can be said</p>	L2
21.		<p>Which among the given options compares atmost n characters of string ch to string s?</p> <p>a) int strncmp(ch, s, n) b) int strcmp(ch, s) c) int strncmp(s, ch, n) d) int strcmp(s, ch)</p>	L1
22.		<p>Which among the following is Copying function?</p>	L2

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		<p>a) memcopy() b) strcpy() c) memcpy() d) strxcpy()</p>	
23.		<p>Which function will you choose to join two words? a) strcpy() b) strcat() c) strncon() d) memcon()</p>	L4
24.		<p>What will be the output of the following C code?</p> <pre style="background-color: #f0f0f0; padding: 10px;"> 1. #include <stdio.h> 2. void main() 3. { 4. int a[2][3] = {1, 2, 3, 4, 5}; 5. int i = 0, j = 0; 6. for (i = 0; i < 2; i++) 7. for (j = 0; j < 3; j++) 8. printf("%d", a[i][j]); 9. }</pre> <p>a) 1 2 3 4 5 0 b) 1 2 3 4 5 junk c) 1 2 3 4 5 5 d) Run time error</p>	L5
25.		<p>Which of the following is not possible statically in C? a) Jagged Array b) Rectangular Array c) Cuboidal Array d) Multidimensional Array</p>	L1
26.		<p>What will be the output of the following C code?</p> <pre style="background-color: #f0f0f0; padding: 10px;"> 1. #include <stdio.h> 2. void main() 3. { 4. int x = 0; 5. if (x == 0) 6. printf("hi"); 7. else 8. printf("how are u"); 9. printf("hello"); 10. }</pre> <p>a) hi b) how are you c) hello d) hihello</p>	L1
27.		<p>putchar(c) function/macro always outputs character c to the _____ a) screen</p>	L1

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	<p>b) standard output c) depends on the compiler d) depends on the standard</p>	
28.	<p>What are the disadvantages of arrays? a) Data structure like queue or stack cannot be implemented b) There are chances of wastage of memory space if elements inserted in an array are lesser than the allocated size c) Index value of an array can be negative d) Elements are sequentially accessed</p>	L3
29.	<p>Elements in an array are accessed _____ a) randomly b) sequentially c) exponentially d) logarithmically</p>	L1
30.	<p>When does the ArrayIndexOutOfBoundsException occur? a) Compile-time b) Run-time c) Not an error d) Not an exception at all</p>	L2

