**University of Mumbai**

Program: \_First Year (All Branches) Engineering - SEM-II

Curriculum Scheme: Rev 2019

C-Programming

**Question Bank**

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| **Q1.** | **Choose the correct option for following questions. All the Questions are**  **compulsory and carry equal marks** |
| 1. | Which storage class is called as default storage class ? |
| Option A: | auto |
| Option B: | register |
| Option C: | static |
| Option D: | extern |
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| 2. | What inbuilt function should be used to return a value rounded up to the next higher integer ? |
| Option A: | floor |
| Option B: | malloc |
| Option C: | puts |
| Option D: | ceil |
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| 3. | In the following initialization what is value of A[5] ? int A[10] = {9, 8, 7, 6, 5, 4, 3, 2, 1, 0}; |
| Option A: | 5 |
| Option B: | 4 |
| Option C: | 3 |
| Option D: | 2 |
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| 4. | What is the output for the following code ?  int main()  {  int a=5,i;  i!=a >10;  printf(“i=%d”,i);  return 0;  } |
| Option A: | i=0 |
| Option B: | i=10 |
| Option C: | i=110 |
| Option D: | i=1 |
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| 5. | How many times will the following while-loop repeat, i.e., how many x are printed? int main()  {  int i = 5;  while(i> 0)  {  printf(“x”);  i--;  }  return 0;  } |
| Option A: | 2 |
| Option B: | 3 |
| Option C: | 4 |
| Option D: | 5 |
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| 6. | Which among the following is an exit controlled loop ? |
| Option A: | for |
| Option B: | while |
| Option C: | do… while |
| Option D: | if…else |
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| 7 | What is another name for 1-D arrays ? |
| Option A: | Linear arrays |
| Option B: | Lists |
| Option C: | Horizontal array |
| Option D: | Vertical array |
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| 8 | Which of the following operators takes only integer operands? |
| Option A: | + |
| Option B: | \* |
| Option C: | / |
| Option D: | % |
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| 9 | What is value of a in following expression?  int a = 10 + 4.867; |
| Option A: | a=10 |
| Option B: | a=14.867 |
| Option C: | a=14 |
| Option D: | a=4 |
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| 10 | C programs are converted into machine language with the help of ----------. |
| Option A: | an editor |
| Option B: | an Assembler |
| Option C: | a compiler |
| Option D: | an operating system |
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| 11 | What is the output of the program.?  int main()  {  float a = 45;  printf("%f", a);  return 0;  } |
| Option A: | 45 |
| Option B: | 45.0 |
| Option C: | 45.000000 |
| Option D: | 0.000000 |
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| 12 | Which among the following is a Conditional Operator in C ? |
| Option A: | ?: |
| Option B: | :? |
| Option C: | <= |
| Option D: | >= |
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| 13 | What is the output of the C statement.?  int main()  {  int a=0;  a = 5<2 ? 4 : 3;  printf("%d",a);  return 0;  } |
| Option A: | 4 |
| Option B: | 3 |
| Option C: | 5 |
| Option D: | 2 |
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| 14 | Recursion is a process in which a function calls \_\_\_\_\_\_\_\_\_. |
| Option A: | itself |
| Option B: | another function |
| Option C: | main() function |
| Option D: | sub program |
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| 15 | What is the Format specifier used to print a character in C.? |
| Option A: | %s |
| Option B: | %c |
| Option C: | %C |
| Option D: | %w |
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| 16 | Which of the following is not a relational operator? |
| Option A: | >= |
| Option B: | >> |
| Option C: | == |
| Option D: | != |
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| 17 | Which one of the following is a valid C expression? |
| Option A: | int my\_number=1000; |
| Option B: | int my-number=1000; |
| Option C: | int my@number=1000; |
| Option D: | int @mynumber=1000; |
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| 18 | What will be the output of the following C code?  #include <stdio.h>  int main()  {  int a = 1, b = 1, c;  c = a++ + b;  printf("a=%d, b=%d", a, b);  } |
| Option A: | a=1, b=1 |
| Option B: | a=2, b=1 |
| Option C: | a=2, b=2 |
| Option D: | a=1, b=2 |
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| 19 | What will be the output of the following C code?  #include <stdio.h>  void main()  {  int x = 5;  if (x == 5)  printf("hi\n");  else  printf("how are u\n");  printf("hello\n");  } |
| Option A: | hi |
| Option B: | hi  hello |
| Option C: | how are you  hello |
| Option D: | how are you |
|  |  |
| 20 | What will be the output of the following C code? (Assuming that we have entered the value 1 in the standard input).  #include <stdio.h>  void main()  {  int ch;  printf("enter a value between 1 to 2:");  scanf("%d", &ch);  switch (ch)  {  case 1:  printf("1\n");  break;  printf("hi");  default:  printf("2\n");  }  } |
| Option A: | 1 |
| Option B: | 1  hi |
| Option C: | hi |
| Option D: | 2 |
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| 21 | What will be the output of the following C code?  #include <stdio.h>  int main()  {  int i = 0;  while (i = 0)  printf("True\n");  printf("False\n");  } |
| Option A: | True |
| Option B: | False |
| Option C: | True  False |
| Option D: | True (Infinite Times) |
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| 22 | What will be the output of the following C code?  #include <stdio.h>  int main()  {  int x = 0;  if (x = = 1)  if (x = = 0)  printf("inside if\n");  else  printf("inside else if\n");  else  printf("inside else\n");  } |
| Option A: | inside if  inside else |
| Option B: | inside else if |
| Option C: | inside if |
| Option D: | inside else |
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| 23 | The value obtained in the function is given back to the main program by using which keyword? |
| Option A: | new |
| Option B: | return |
| Option C: | volatile |
| Option D: | static |
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| 24 | What will be the output of the following C code?  #include <stdio.h>  void main()  {  m();  m();  }  void m()  {  static int x = 5;  x++;  printf("%d", x);  } |
| Option A: | 5 5 |
| Option B: | 5 6 |
| Option C: | 6 6 |
| Option D: | 6 7 |
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| 25 | An array Index starts with.? |
| Option A: | 0 |
| Option B: | 1 |
| Option C: | -1 |
| Option D: | 2 |
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| 26 | What will be the output of the following C code?  #include <stdio.h>  void main()  {  char string[]={'E','X','A','M','\0'};  printf("%s",string);  } |
| Option A: | E |
| Option B: | EXAM0 |
| Option C: | EXAM\0 |
| Option D: | EXAM |
|  |  |
| 27 | Which one of the following is NOT an identifier? |
| Option A: | \_cprogram |
| Option B: | c\_program |
| Option C: | 20cprogram |
| Option D: | cprogram20 |
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| 28 | What will be the output of the following program?  int main()  {  int i=9;  while(i++<10)  printf("%d\n",i);  return 0;  } |
| Option A: | 9 |
| Option B: | 10 |
| Option C: | 1 |
| Option D: | 11 |
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| 29 | What will be the output of the following program?  int main()  {  int a,b,c,d,e,f,g,h,k;  a=8, b=4, c=2, d=1, e=5, f=20;  printf("%d\n",a+b-(c+d)\*3%e+f/9);  return 0;  } |
| Option A: | 10 |
| Option B: | 9 |
| Option C: | 8 |
| Option D: | 20 |
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| 30 | If a is a variable initialized to 1, how many times will the following loop be executed?  while((a>0)&&(a<25)) { loopbody a++; } |
| Option A: | 25 |
| Option B: | 24 |
| Option C: | 20 |
| Option D: | 26 |
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| 31 | In an array a[2] [2] = {10,20,30,40,50,60}, then a[0] [1] is which element? |
| Option A: | 10 |
| Option B: | 20 |
| Option C: | 30 |
| Option D: | 40 |
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| 32 | What will be the output of the following program?  int main()  {  int a = 500, b = 100, c;  if(!a >= 400)  b = 300;  else  b=b+++b\*a/b;  c = 10;  c=b<<1;  c=c>>b+1;  printf("b = %d c = %d\n", b, c);  return 0;  } |
| Option A: | B=600, c=3 |
| Option B: | B=600, c=2 |
| Option C: | B=600, c=1 |
| Option D: | B=600, c=0 |
|  |  |
| 33 | Which bitwise operator is used for turning off a particular bit in a number? |
| Option A: | | |
| Option B: | ^ |
| Option C: | & |
| Option D: | ~ |
|  |  |
| 34 | What will be the output of the following program?  int i;  int goodday();  int main()  {  while(i)  {  main();  goodday();  i++;  }  printf("Exam\n");  return 0;  }  int goodday()  {  printf("Goodday");  } |
| Option A: | Goodday |
| Option B: | Exam Goodday |
| Option C: | Exam |
| Option D: | Goodday Exam |

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|  | Write a program to read Title, Author and Price of 5 books using array of structures. Display the records in ascending order of Price. |
|  | Implement a program to perform addition of two matrices. |
|  | Write a program to check whether a word is palindrome or not.. |
|  | What are bitwise and logical operators in C ? |
|  | What are strings and give any four string related functions. |
|  | Implement a program to find transpose of a matrix. |
|  | Write a C program to find LCM of two numbers using recursion. |
|  | Distinguish between structure and  union. |
|  | What are the tokens of c language explain with example. |
|  | Explain while loop with example. |
|  | Write a program to print Fibonacci series. |
|  | Write a program using recursion to find factorial of a number. |
|  | Explain nested structures with examples. |
|  | Write a C program to perform multiplication of two matrices. |
|  | Explain conditional operator used in C language with proper example. |
|  | Explain the term recursion. Write a program to find the power of x raised to n that is: xn, using recursive function. |
|  | Explain following functions with example  sqrt(), fabs(), pow(), ceil(), floor() |
|  | Write a program to print the following pattern.  A  B B  C C C  D D D D |
|  | Write a program to find largest element of an 1D array. |
|  | Write a Program to calculate and display sum of all the elements of the matrix. |
|  | Define a structure called player with data members as player name, team name, batting average. Store and display the information of at least 10 players. |
|  | Write a program to accept three numbers from the user and display the greatest of three using the conditional operator. |
|  | Write a program to display the following for the user specified number of lines.  \*  \*\*  \*\*\*  \*\*\*\*  \*\*\*\*\*  \*\*\*\*\*\* |
|  | Write a program to check if the entered number is prime number or not. |
|  | Write a program in C to find out the power of x raised to n (xn), using non-recursive function. |
|  | Write a program in C to find the smallest of N elements using an array. |
|  | Write a program in C to find the reverse of a given string without using inbuilt string function. |
|  | Write a program to accept a set of 10 numbers and print the numbers using arrays. Find the average of these integers. |
|  | Write a program to store and display at least 10 records of the name, roll number and fees of a student using structure. |
|  | Explain five arithmetic operators used in C language with proper examples. |
|  | Explain String function for the following operations with example.   1. Copy string from source to destination. 2. Merging of two strings. |
|  | Explain the term recursion. Write a program to find summation of n numbers using recursion. |
|  | Write a program to print the following pattern. (Note- Not only 4 lines, it should print N lines taken from the user.)  A  B B  C C C  D D D D |
|  | Write a C-program to create array of structures in order to store details of almost 100 books. The book details are book name, book price, book page number and book author name. |
|  | Write a program that will accept two-dimensional square matrix and find the sum of diagonal elements. (Note- sum of diagonal elements should be calculated for both sides). |
|  | Explain the use of following in-built functions of C-language by giving suitable programming examples and also mention their respective header files in which they are defined.   1. getch() 2. pow() 3. ceil() 4. puts() 5. getchar() |
|  | What are the different ways of parameter passing to a function? Explain with examples. |
|  | Write a C program to find GCD of two numbers using recursion. |
|  | Write a C program to implement month name by accepting month number from user. ( Use switch case) |
|  | Write a C program to accept 10 integers from the user and arrange them in ascending order and display them. |
|  | Give the difference between entry and exit controlled loop with an example. |
|  | Differentiate between arrays and structures. |