B. Voc. (ACTECH) (Sem. I) (CBCS) Examination

April / May – 2015

ACTECH - 1.2 : Building Logic Using C Language

Faculty Code : 003

Subject Code : 039102

Time : $2\frac{1}{2}$ Hours]   [Total Marks : 70

SECTION – I

1   Select the appropriate choice from given answers.   **20**

   (1)   The step by step representation of any problem is known
          as _____.

          (A)   Algorithm   (B)   Flowchart

          (C)   Chart   (D)   Program

   (2)   The characters in C Character set are categorized into
          _____ categories.

          (A)   2   (B)   3

          (C)   4   (D)   5

   (3)   The assignment notation always works from _____ ?

          (A)   Top to 'Bottom   (B)   Left to Right

          (C)   Right to Left   (D)   Bottom to Top

(4) Which is the valid constant?

    (A) 12000   (B) 12,000

    (C) 12000/-   (D) $12000

(5) Any C statement end with _____

    (A) :   (B) ;

    (C) .   (D) None of these

(6) Which of the following special symbol allowed in a variable name?

    (A) * (asterisk)   (B) | (pipeline)

    (C) - (hyphen)   (D) _ (underscore)

(7) By Default int is _____

    (A) unsigned   (B) signed

    (C) long   (D) short

(8) Function returns _____ value by default.

    (A) int   (B) void

    (C) float   (D) char

(9) Backslash character constant are known as _____

    (A) Set of Character   (B) Special Character

    (C) Escape Sequence   (D) None of these

(10) What will be the output of ceil(8.78)?

    (A) 8   (B) 9

    (C) 10   (D) None of these

(11) The operator && is example of which operator?

(A) Increment   (B) Logical

(C) Assignment   (D) Relational

(12) _____ is the last character of the character array.

(A) 'z'   (B) 0

(C) '\0'   (D) None of these

(13) _____ operator cannot be used with real operands.

(A) +   (B) *

(C) %   (D) /

(14) Every c program has at least one UDF, that is _____

(A) printf()   (B) scanf()

(C) getch()   (D) main()

(15) In C, if you pass an array as an argument to a function, what actually gets passed?

(A) Value of elements in array

(B) First element of the array

(C) Base address of the array

(D) Address of the last element of the array

(16) _____ statement is used to skipping a part of the statements in a loop.

(A) break   (B) continue

(C) for   (D) while

(17) What will be the output of the program?

```
void main()
{
    int a, b,*p;
    p=&a;
    a=10;
    b=20;
    printf("%d", *p);
}
```

(A) 10   (B) 20

(C) 30   (D) None of these

(18) _____ function is used to open a file.

(A) fseek()   (B) fopen()

(C) fwrite()   (D) fread()

(19) Which header file should be included to use gets()?

(A) conio.h   (B) string.h

(C) ctype.h   (D) stdio.h

(20) _____ is known as branching statement.

(A) if .... else   (B) switch .... case

(C) goto   (D) else if ladder

SECTION – II

2 (a) Answer the following questions : (Any Three) 6

  (1) What is Constant? List out the types of constant.

  (2) Explain abs() and pow() with example.

  (3) Explain the rules of variable name.

  (4) Explain conditional operator.

  (5) Draw a flowchart to find out maximum from two numbers.

  (6) Explain pointer with example.

  (b) Answer the following questions. (Any Three) 9

  (1) Explain: C Character set.

  (2) Write a program to enter 10 elements in 1-d array and print first and last element of it.

  (3) Write a Difference between structure and union

  (4) Draw a flowchart to check whether the number is odd or even.

  (5) Distinguish : Entry controlled loop and Exit controlled loop

  (6) Explain : strcpy() Function.

  (c) Answer the following questions. (Any Two) 10

  (1) What is an operator? Explain any three.

  (2) Explain malloc(), calloc() and free() function.

  (3) Write a program to check entered number is prime or not.

  (4) Explain Basic structure of C program.

  (5) Explain general format of opening file with list of file mode.

3 (a) Answer the following questions. (Any Three) **6**

(1) What is token? List out all the tokens available in C.

(2) Explain symbolic constant.

(3) Explain typecasting.

(4) What is array? List out types of array.

(5) Explain goto statement with an example.

(6) What is union?

(b) Answer the following questions. (Any Three) **9**

(1) Write a program to find factorial of given number using recursive function.

(2) Explain break and continue statements with example.

(3) Create a user defined function named sum which accept 2 argument (of integer type) and return the sum of them.

(4) Explain array of structure with example.

(5) Explain if .... else statement with an example.

(6) Create a structure named student that have member variable roll no ,name, m1, m2, m3, total, and per. Calculate total and per.

(c) Answer the following questions. (Any Two)   **10**

(1) Explain for loop with example.

(2) Write a program to get two strings from user. Display length of both strings and check whether the both strings are equal or not.

(3) Write a program to print following pattern.

1

1 2

1 2 3

1 2 3 4

(4) List various categories of UDF. Explain any one with example.

(5) Write a note on call by reference with example.

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