

BACHELOR OF COMPUTER APPLICATION
FIRST SEMESTER
C-PROGRAMMING
BCA-MAJ-111
[USE OMR FOR OBJECTIVE PART]

SET
A

Duration: 2 hrs.

Full Marks: 50

Time: 20 min.

(Objective)

Marks: 15

1X15=15

Choose the correct answer from the following:

1. Which of the following is not a valid variable name declaration?

- a. int
- b. abc
- c. a_b
- d. a

2. The format identifier '%d' is used for _____ datatype.

- a. float
- b. string
- c. int
- d. char

3. C is a _____ type language

- a. Low level
- b. High level
- c. Machine Level
- d. Assembly language

4. Which one of the following is a loop construct that will always be executed once?

- a. while
- b. for
- c. Do while
- d. switch

5. What is an example of iteration in C?

- a. while
- b. do while
- c. for
- d. All of the mentioned

6. What is a function primarily used for?

- a. decision making
- b. variable declaration
- c. code organization and reusability
- d. printing output.

7. What is the purpose of function prototype in c?

- a. To declare a function return type
- b. to declare a function name
- c. to declare a functions parameters and return type
- d. to declare a function's name and parameters

8. What is the highest index for an array with 10 elements in C?

- a. 5
- b. 9
- c. 10
- d. 11

9. The C code for loop represents an infinite loop. It can be terminated by _____.

- a. break
- b. exit(0)
- c. abort()
- d. terminate

- 10 What keyword is used to declare a structure in C?
a. typedef b. union
c. struct d. class
- 11 Which keyword can be used for coming out of recursion?
a. break b. return
c. exit d. both break and return
- 12 The keyword 'break' cannot be simply used within _____.
a. do-while b. if-else
c. for d. while
- 13 Which keyword is used to come out of a loop only for that iteration?
a. break b. return
c. continue d. none of the mentioned
- 14 Which of the following is a correct format for declaration of function?
a. return-type function-name(argument type); b. return-type function-name(argument type){}
c. return-type (argument type)function-name; d. all of the mentioned
- 15 Which of the following function declaration is illegal?
a. int lbhk(int); b. int lbhk(int a);
c. int lbhk(int*, int []); d. all of the mentioned

(Descriptive)

Time : 1 hrs. 40 min.

Marks : 35

[Answer question no.1 & any three (3) from the rest]

1. a) Discuss the different data types in C program. 5

2. a) Discuss different control statement with example in C program. 5+5=10
b) What is string? Explain the different string handling function

3. a) Write a C program to display odd numbers and even numbers within a range. 5+5=10
b) Write a C program to find out the sum of digit of a number.

4. a) What is Function? Explain the element of function. 5+5=10
b) Write the difference between while loop and do-while loop

5. a) i) Write the output of the following code 5+5=10

```
int main()
{
    inti;
    for(i=1;i<15; i++)
    {
        i%4== 0
        break;
        printf("%d", i);
    }
    return(0);
}
```


ii)

```
int main()
{
    inti;
    for(i=1;i<20; i++)
    {
        i%3== 0
        continue;
        printf("%d", i);
    }
    return(0);
}
```

b) Write a program to check whether a number is positive or negative number using function

6. a) What is an array? Show the memory representation of an array.
b) Write a program to define a structure of an employee with details like employee number, employee name, address and contact number. Using this declare an array with 10 elements. Write a program to read details of n employee and print the list of employee which employee number greater than 5.

5+5=10

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