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19/2nd Sem/DCSE 202



2022

**COMPUTER FUNDAMENTALS AND  
PROGRAMMING**

Full Marks – 100

Time – Three hours

The figures in the margin indicate full marks  
for the questions.

Answer any *five* questions.

1. (a) Multiple Choice Questions :  $1 \times 10 = 10$
- (i) Which of the following is not a valid variable in C ?
- (a) var123                      (b) CIT
- (c) 123\_student                (d) None of these
- (ii) How many keywords are there in C programming ?
- (a) 30                              (b) 31
- (c) 32                              (d) None of these

[Turn over

(iii) What will be the output of the following C code ?

```
1. #include <stdio.h>
2. void main()
3. {
4. int x = 0;
5. x=x+1;
6. if (x == 0)
7. printf("hi");
8. else
9. printf("how are u");
10. }
```

- (a) how am I (b) Hello  
(c) how are u (d) Hi

(iv) Convert  $(1024)_{10}$  to its binary equivalent.

- (a) 011000000000 (b) 010000011111  
(c) 010000000000 (d) 011111111111

(v) Which of the following is not an assignment expression ?

- (a)  $y = z * 5$  (b)  $x + = 1$   
(c)  $(a = = b)$  (d) None of these

(vi) C programs are converted into machine language with the help of.

- (a) An Editor
- (b) An Operating System
- (c) A compiler
- (d) None of these

(vii) What is the extension files by default for C Program ?

- (a) .doc      (b) .exe
- (c) .c        (d) .ppt

(viii) Which of the following is not a relational operator ?

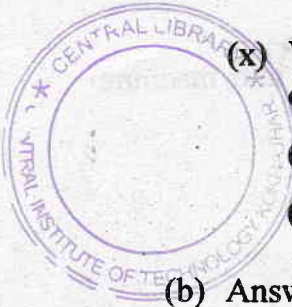
- (a)  $\leq$       (b)  $\neq$
- (c)  $=$         (d)  $==$

(ix)  $i++$  is called \_\_\_\_\_ operator.

- (a) Post decrement
- (b) Pre increment
- (c) Post increment
- (d) Pre decrement







(x) Which of the following is not an example of Looping statement ?

- (a) For                      (b) Do while  
(c) Switch                    (d) While.

(b) Answer the following questions :  $1 \times 10 = 10$

- (i) What is the full form of ROM.  
(ii) If 'a' is an interger variable, then what is the return a value of  $a = 5/2$ ;  
(iii) What is the difference between = and == symbol ?  
(iv) What is the meaning of \n in C programming ?  
(v) Explain the meaning of scanf() function in C.  
(vi) Why do we need to use comment in programming ?  
(vii) Declare an array variable of size 10.  
(viii) Draw the flowchart to check whether a number is positive or negative.  
(ix) Convert  $(100011011)_2$  to Hexadecimal number.  
(x) What do you mean by Base address of an array ?



- (iii) Explain Low-level language and High level language. 5
6. (i) Discuss the various types of operators used in C. 10
- (ii) Write a program to check the largest number among 3 numbers using if statement. 10
7. Write short note on any *four* : 5×4=20
- (i) RAM and ROM
  - (ii) ARRAY
  - (iii) IDENTIFIERS
  - (iv) FUNCTION
  - (v) HEXADECIMAL NUMBER SYSTEM.

