

Total No. of printed pages = 7



2022

RETEST EXAMINATION

Semester : 3rd

Subject Code : CO-304

PROGRAMMING USING – C

Full Marks – 70

Time – Three hours

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

Instructions :

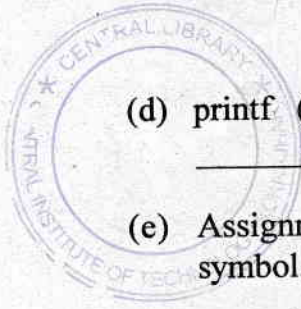
1. All questions of PART-A are compulsory.
2. Answer any *five* questions from PART-B.

PART – A

Marks – 25

1. Fill up the blanks : 1×10=10
 - (a) _____ command is used to come out of a loop.
 - (b) “ \n ” is known as _____ character to break a line.
 - (c) Memory address is denoted by _____ character.

[Turn over



(d) printf () and scanf () are belonging to _____ header file.

(e) Assignment operator is denoted by _____ symbol.

(f) We use ** symbol in front of a variable to indicate _____.

(g) Conversion specification for long int is _____.

(h) We can use _____ to navigate within the file.

(i) Array index in C language always starts from _____.

(j) One example of exit control looping statement is _____.

2. Write true or false : 1×10=10

(a) # include is a preprocessor directive.

(b) In C language sizeof () is a function to return size of a variable.

(c) The string.h header file contains strcat () function.

- (d) A keyword can be used as a variable.
- (e) The ++ operator increments the value of a variable by 1.
- (f) The continue statement skips one iteration of a loop.
- (g) The old contents of the data file will not be destroyed when we use "w" mode in fopen() statement.
- (h) Structure is an user defined data type in which only similar data can be put together.
- (i) Array is a derived data type in which only similar data can be put together.
- (j) Local variables can be accessible from any function within a program.

3. Choose the correct answers : 1×5=5

(i) If `int a = 6;` and `b = a++;`

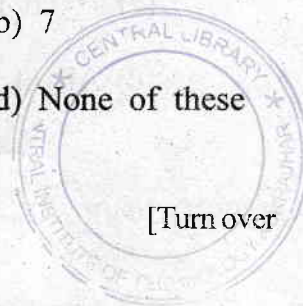
Then `printf("%d",b);` will produce :

(a) 6

(b) 7

(c) 0

(d) None of these



(v) During program execution a constant

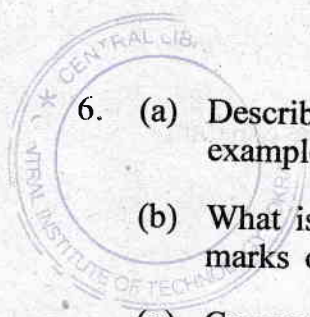
- (a) can not be changed
- (b) can be changed
- (c) can not be used
- (d) All of these.



PART – B

Marks – 45

4. (a) Describe the branching statements : 6
- (i) if.. else statement
 - (ii) nested if statement
 - (iii) switch statement
- (b) Write a C program to read age of 10 students.
Find average age. 3
5. (a) Draw a flowchart to read a number and check
whether it is odd or even ? 4
- (b) Write a program in C for the above problem. 4
- (c) Why “\t” is used in a printf () statement ? 1



- 6. (a) Describe bubble sort with the help of one example of elements. 3
- (b) What is array? Give example for keeping marks of 20 students in maths. 3
- (c) Compare while and do _____ while loop. 3

- 7. (a) Describe the following terms related to a data file processing in C language : 3
 - (i) fprintf ()
 - (ii) EOF.
- (b) Describe the file modes to be used in fopen () statement. 3
- (c) Write a C program to create a data file to keep the following data :
Product No, Product Name, Quantity, Rate and Amount. 3

- 8. (a) How constants are declared in C language ? 2
- (b) What are the relational operators in C ? 2
- (c) When we can use a void data type ? 1
- (d) What is a variable? Describe the global, static and register variables. 1+3=4

9. Write short notes on any *three* : $3 \times 3 = 9$

- (a) Pointer
- (b) Structure
- (c) Array
- (d) Data File Organisation.

