

**2023/TDC(CBCS)/EVEN/SEM/
BVOC GE-202T/380**

TDC (CBCS) Even Semester Exam., 2023

B.VOC (INFORMATION TECHNOLOGY)

(2nd Semester)

Course No. : BVOC GE-202T

(Programming in C)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

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

SECTION—A

(Answer any two questions)

1. Explain Procedural Oriented Programming (POP) language with diagram. What are the characteristics of POP language? Write a short note on history of C. 5+6+6=17
2. What is control statement in C program? Write short notes on the following control statements : 1+16=17
 - (a) While
 - (b) Do while

(2)

- (c) For
(d) If-else
(e) Switch
(f) Break
(g) Continue
(h) Go-to
3. (a) Define an array with example. Write a C program to print all the elements of an array of size 10. $2+6=8$
(b) How many types of arrays are there in C? Explain all the types with examples. $1+8=9$
4. (a) Write a C program to accept a string and display the reverse of the string. 7
(b) Write a C program to multiple two matrices of size n . 10

SECTION—B

(Answer any two questions)

5. (a) Define pointer with example. Write the five key points to remember about pointer in C. $2+5=7$

(3)

- (b) Write down the advantages and disadvantages of using pointer in C. 5
(c) What is array of pointer? Explain with example. $1+5=6$
6. (a) Write short notes on the following : $3 \times 2 = 6$
(i) Function prototype declaration
(ii) Actual Argument and Formal Argument
(b) What do you mean by call by value and call by reference? Explain with example. 8
(c) Explain void fun(void). 4
7. (a) Differentiate between structure and union. 5
(b) Write a C program to read and print student information (roll, name, course). 5
(c) Define self-referential structure with example. Mention the different types of self-referential structure. Explain all the types with diagram. $2+6=8$
8. (a) How are files created in C? Give syntax, also mention some file mode parameters. $3+3=6$
(a) Write a C program to create a file and write some data into it. 5

(4)

(c) Write down the purpose of the following
file handling functions : $1+2+2+2=7$

- (i) fseek()
- (ii) getc() and put()
- (iii) getw() and putw()
- (iv) fread() and fwrite()

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