

2024/FYUG/ODD/SEM/
CSCSEC-101T/137

FYUG Odd Semester Exam., 2024

COMPUTER SCIENCE

(1st Semester)

Course No. : CSCSEC-101T

(Programming with C)

Full Marks : 50

Pass Marks : 20

Time : 2 hours

The figures in the margin indicate full marks
for the questions

UNIT—I

1. Answer any *three* from the following questions : 1×3=3

(a) Who developed C language?

(b) What are variables?

(c) What are switch statements?

(d) Define an expression.

2. Differentiate between `int main()` and `void main()`. 2

OR

3. What is the difference between `break` statement and `exit()`? 2

(2)

4. Write a C program to calculate the SUM of two numbers. 5

OR

5. Explain different looping statements used in C. 5

UNIT—II

6. Answer any *three* from the following questions : 1×3=3

- (a) What is function?
- (b) Define function prototypes.
- (c) What are header files?
- (d) What do you mean by storage class?

7. How do we define a function? 2

OR

8. What is the difference between passing by value and passing by reference in a function? 2

9. Describe recursive function with an example. 5

OR

10. What is scope rule? Write a C program to calculate factorial of n numbers using recursion. 1+4=5

((3))

UNIT—III

11. Answer any *three* from the following questions : 1×3=3

- (a) What is array?
- (b) What is data structure?
- (c) What is multi-dimensional array?
- (d) Define pointer.

12. What is two-dimensional array? How do we declare a 2D array? 2

OR

13. What is array of pointer? Give example. 2

14. Write a C program to illustrate the use of multi-dimensional array. 5

OR

15. Write short notes on the following : 2½×2=5

- (a) Call-by-value
- (b) Call-by-reference

UNIT—IV

16. Answer any *three* from the following questions : 1×3=3

- (a) Define structure.
- (b) What is structure variable?
- (c) What is union?
- (d) What is typedef?

(4)

17. Write down the difference between structure and union. 2

OR

18. What is lookup table? Why is it needed? 2

19. Write a C program to illustrate the use of structure in C. Write input of data (Name, Roll No., Department and Semester) in the structure. 5

OR

20. How can we pass structures to a function? Explain with suitable example. 5

UNIT—V

21. Answer any three from the following questions : 1×3=3

(a) What are the functions of scanf and printf functions?

(b) What are data files?

(c) Define library function.

(d) What is macro?

22. What is enumeration? Give example. How do we use enumeration in C? 2

OR

23. What is C preprocessor? Give example. 2

(5)

24. Write short notes on the following : 2+1+2=5

(a) Register variable

(b) 'Enum'

(c) Unformatted data file

OR

25. Write a program to take the contents of a file and copy them into another file, character-by-character. 5
