Turn Over



 $(10 \times 2 = 20)$

12. What will be the output ? #define SQUARE(X) X * X void main () { printf ("\n Square =

printf("%d/n ",x); x--; }

7. What would be printed at the end of the following program segment? x=12; while (x>7) {

What is looping?

What is multidimensional array? 8.

%d", SQUARE(10+2)); }

- 10. Write at least three advantages of functions.
- 11. What is meant by incrementing and decrementing pointers?
- 9. What is the use of getchar() function?

Part B

Page 1/2

- executed if j=5 and k= 3. What is meant by typecasting?
- If a =11 and b=3, what is the value of a%b?

Write any two escape sequences and their functions.

- Consider the C statement x = (j+k>5)?(j+k):5; What will happen when this statement is
- What is an expression? How is an expression different from variables? 2. 3.

Each question carries 2 marks.

Part A

Answer any ten questions.

B.Sc DEGREE (CBCS) REGULAR/IMPROVEMENT/REAPPEARANCE **EXAMINATIONS, FEBRUARY 2023**

First Semester

B.Sc Electronics and Computer Maintenance Model III

Core Course - EM1CRT01 - C PROGRAMMING

2017 Admission Onwards

3AF6EC8A

Time: 3 Hours

1.

4.

5.

6.

OP CODE: 23104651

Max. Marks: 80



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Reg No

Name



Answer any **six** questions. Each question carries **5** marks.

- 13. What do you understand by constant, variable and keywords? Discuss the scope of a variable.
- 14. Write about the functions used for formatted input and output in C.
- 15. What are the different decision control structure available in C. Explain with examples.
- 16. Explain the features of an array and their uses.
- 17. Write a program to copy one string into another.
- 18. What is a structure? How can you access a structure member ? Explain with example.
- 19. Write a program to swap two values using pointers in function.
- 20. What is the difference between the statements rewind(fp); and fseek(fp,0L,0);?
- 21. What are command line arguments?Explain .Write a simple program using command line arguments.

(6×5=30)

Part C

Answer any **two** questions. Each question carries **15** marks.

- 22. a)Write an algorithm to find the average of 100 scores. b)Write an algorithm and draw the flowchart to add the number of digits in a given 4-digit number. Eg for 1234 ,the answer is 10.
- 23. Write a program to read a line of text and output the number of words and characters in it.
- 24. a) What is meant by the scope and lifetime of variables in functions? b)Explain the difference between static and extern storage class with examples.
- 25. Write a program in 'C' to store the roll no. and marks of 5 subjects in a file. Read the contents of file and display the roll no. and total marks obtained by each student in a class (2×15=30)