

19. Write a C program to calculate student-wise total marks for three students using array of structure.
20. Describe the followings
- (a) Register variables
 - (b) Bitwise operations
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NOVEMBER/DECEMBER 2019

BEL33 — PROGRAMMING IN C

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer all the following questions.

1. Write the hierarchy of operators.
2. If $x = 8.8y$, $y = 3.5$, $z = -5.2$, then determine value of following expression $2 * y + 3 * (x - z)$.
3. Mention the difference between formatted and unformatted you input and output functions.
4. What is meant by recursive function?
5. What are the differences between structures and union?
6. What do you understand by 'call by reference'?
7. What is the general format of sending a copy of a structure?



8. What is union?
9. Mention the general format for declaring and opening file.
10. What is the function of bitwise XOR?

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL the questions.

11. (a) Discuss the all types of constants.
- Or
- (b) Explain the input-output statements.
12. (a) Discuss the do-while loop with an example.

Or

- (b) Explain the process of recursion.
13. (a) Describe the initialization of two dimensional array.

Or

- (b) Explain the declaration of structure variables.

14. (a) Write a program to pass entire structure as an argument of a structure.

Or

- (b) Explain how structures are initialized in C.

15. (a) Illustrate the followings (i) Creating (ii) Processing data files.

Or

- (b) Describe C preprocessor.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Describe the declaration of variables.
17. Illustrate the followings
- (a) if-else
- (b) go to statements
18. Discuss the declaration and initialization of one dimensional arrays.

