

JAP-003-003102 Seat No. _____

B. C. A. (Sem. I) (CBCS) Examination

November - 2019

CS - 02: Problem Solving Methodologies and Programming in C

(Old Course)

Faculty Code: 003 Subject Code: 003102

Time : $2\frac{1}{2}$ Hours] [Total Marks: 70 1 Answer the following: 20 (1) List out Memory Allocation Functions. (2) What is Array? (3) Give syntax for declaring a Union. **(4)** Array index starting from _____ Which operator is used to access a member element **(5)** of structure? (6) What is pointer variable? (7) The standard C language comment is The preprocessor directive #include is required if console (8)output is used. (True/False) The Operator << is called _____ (9)(10) What will the below sample produce when executed. Void myFunc (int x) { If(x>0) myFunc(++x); printf("%d,",x) } Int main() { myFunc(5); return 0;

}

| | (11) | What will the below sample produce when executed. | | |
|---|------|---|---|--|
| | | Int $a = 15,b$ | | |
| | | b = a++ + ++a; | | |
| | | printf("%d, %d, %d, %d",b,a++,a,++a) | | |
| | (12) | C Language has been developed by | | |
| | (13) | What is Dry-run? | | |
| | (14) | What is type casting? | | |
| | (15) | What is the use of free()? | | |
| | (16) | What is Recursion? | | |
| | (17) | Which value return by strcmp() when both string is same? | | |
| | (18) | What is use of putw() function? | | |
| | (19) | Give syntax of fopen() function. | | |
| | (20) | argv stands for | | |
| | | | | |
| 2 | (A) | Attempt Any Three: | 6 | |
| | | (1) Explain c-character set. | | |
| | | (2) Explain Pointer to Pointer. | | |
| | | (3) Differentiate between: Array and Structure. | | |
| | | (4) What is Flowchart? | | |
| | | (5) What is the use of break & continue statement. | | |
| | | (6) What is algorithm? | | |
| | (B) | Attempt Any Three: | 9 | |
| | | (1) Explain switch case statement with example. | | |
| | | (2) Explain String arrays with example. | | |
| | | (3) Explain Pointer within Array. | | |
| | | (4) Explain gets() and puts() functions with example. | | |
| | | (5) Explain fseek(), rewind(), fflush(). | | |
| | | (6) Give the difference between traditional and modern C. | | |
| | | | | |

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[Contd....

| (C) | Attempt Any Two : | | | |
|------------------|--------------------------|--|-----|--|
| | (1) | Explain else if ladder statement with example. | | |
| | (2) | What is user defined function? Explain Type of UDF. | | |
| | (3) | Write a program to copy the contents of one file into another. | | |
| | (4) | Explain Command line arguments with suitable example. | | |
| | (5) | Explain looping control statement with example. | | |
| 3 (A) | Atte | empt Any Three: | 6 | |
| | (1) | Give the difference between call by value and call by reference. | | |
| | (2) | Explain difftime() function. | | |
| | (3) | Explain Symbols of Flowchart. | | |
| | (4) | | | |
| | (5) | Differentiate: Structure v/s Union | | |
| | (6) | List out file opening mode. | | |
| (B) | Atte | empt Any Three: | 9 | |
| | (1) | Explain strcpy() and strcat() functions with example. | | |
| | (2) | _ | | |
| | (3) | Explain Structure of C program | | |
| | (4) | Explain Nesting of loops with example. | | |
| | (5) | Explain rewind() function with suitable example. | | |
| | (6) | Explain Nested structures. | | |
| (C) | Atte | empt Any Two: | 10 | |
| | (1) | Explain different Storage classes in C. | | |
| | (2) | Explain Single-Dimensional Array in detail with example. | | |
| | (3) | Explain All Operators in C Language. | | |
| | (4) | Explain Data types in C. | | |
| | (5) | Explain Pointers within Structure with suitable | | |
| | ` / | example. | | |
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