2022

Full Marks: 60

Time: 3 hours

Answer from both the Groups as directed

The figures in the right-hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

GROUP-A

- 1. Answer all questions of the following: 1×5
 - (i) What is the output of the following code snippet?

```
int main() {
int sum = 2 + 4 / 2 + 6 * 2;
printf("%d", sum);
return 0;
}
```

- (a) 2
- (b) 16 (c) 8
- (d) 19
- (ii) Which of the following is an exit controlled loop?
- (a) While loop
- (b) do-while loop
- (c) for loop
- (d) None of these
- (iii) Which of the following function is used to open a file in C++?
- (a) Fopen
- (b) fclose
- (c) fseek
- (d) fgets

(Continued)

1st Sem-BCA(MJ-1)

- (iv) How to find the length of an array in C?
- (a) Sizeof(a)
- (b) Sizeof(a[O])
- (c) Sizeof(a)/Sizeof(a[O])
- (d) Sizeof(a) * Sizeof(a[O])
- (v) What is the output of following program?

#include <stdio.h>

#define square(x)(x*x)

int main()

 $\{ int x, y = 1;$

x = square(y + 1);

printf("%d\n", x);

return 0;

(a) Error

1st Sem-BCA(MJ-1)

(Turn Over)

(d) Garbage value

- diagonal elements of a square matrix. Write a program to computer the sum of
- Discuss basic file handling function.

GROUP-B

Answer any three questions of the following:

- What do you understood by built-in funcdefined function? tion? How are they different from user
- In What is an array? What are the merits and with suitable example. one dimensional and two dimensional arrays demerits of array in C? Differentiate between

- Explain the term "calling function by refe-Explain using a suitable example. rence." How do you declare pointers?
- 7, Write short notes on any two of the follo-: Sunn
- (a) Recursive function
- (b) Dynamic Memory Allocation
- (c) Storage classes.
- Write a program in C to find the Fibonacci series between 1 to n.

1st Sem-BCA(MJ-1)

(Continued)

. . . . JCA(MJ-1)