

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 09

BMCI (2014 & Onwards) (Sem.-1)

PROGRAMMING IN C

Subject Code : BMCI-104

M.Code : 72201

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

SECTION-A**1. Answer briefly :**

- (a) What is a programming?
- (b) Draw and explain any two symbols used in flow charts.
- (c) What is debugging?
- (d) Give an example of nested *if* statement in C.
- (e) Why do we use *break* statement?
- (f) What is call by reference?
- (g) How will you declare an integer array of size $2 \times 3 \times 4$ using C?
- (h) What is a union in C?
- (i) Explain the meaning of the statement :

 `int **MyArray;`
- (j) Why do we use `#include<stdio.h>` in C?

SECTION-B

2. Write and explain the steps in development of program.
3. Give and explain an example of a *switch* statement.
4. How will you add two matrices using C?
5. How will you use the following lines in your C program?

```
#define PI 3.142
```

```
#define CircleArea(r) (PI*r*r)
```

6. Explain the storage classes of C language.

SECTION-C

7. Write a C code to find a given number in a three dimensional matrix.
8. Write a C code to solve the quadratic equation $ax^2 + bx + c = 0$.
9. Write a C code to write and read an integer to/from a given file.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.