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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) How 'c' is a block structured language? Explain.

   (b) Distinguish between the following functions:

      i)   getch() and getchar()

      ii) putch() and putchar()

   (c) What are formal and actual parameters?

   (d) How pointers to a structure are used to access the elements defined in the structure?

   (e) What is the main difference between structures and unions?

   (f) What is a file pointer?

   (g) What are Macros? What are their advantages over the functions?

   (h) What is the relation between pointer and array?

   (i) What is a structure tag? What is its use?

   (j) What is a pointer? What value isstored in a pointer?

SECTION-B

2. What is a flowchart? What are the various symbols that are used in a flowchart? Explain.

3. What are the rules for mixed-mode expression evaluation?

4. What is an array? Explain the representation, storage, accessing the elements in a one dimensional array.

5. What are the operations that can be defined using pointers? What are their uses?

6. Distinguish between:

   a) Nested-if and Switch-case

   b) Break and continue

SECTION-C

7. When an array is passed to a function what is actually passed? When an entire array is passed to a function, the function can alter the values of the elements of the array. How can you prevent the function from doing so?

8. What is a pointer? What are address of and indirection operators? Explain declaration and initialization to a pointer data type

9. Distinguish between: a) binary and text files b) reopen and rewind c) ftell and fseek d) close and end-of-file