		13811
Total number	er of printed pages–4	1st sem
1	52 (1) CFPR IT-1.4/1	TB-HC-1016
5,	2021	
tig wo	(Held in 2022)	
COMPUTER FUNDAMENTALS AND PROGRAMMING		
_	per : IT-1.4 & ITB (HC-	1016)
2 how top	Old and New Syllabu Full Marks: 60 Time: Three hours	s) ()
Timen: Three hours		
The figures in the margin indicate full marks for the questions.		
	n the blanks :	1×5=5
<i>(i)</i>	formally styled English I for explaining an algorit	anguage used ঽ
(ii)	representation of the logitask.	9
(iii)	Cache memory is faster memory.	than main mm
(liv)	and and structural programming	language.
	(, (++, pytron, punca)	Contd.

The set of instructions that instruct the computer about the way the task is to be performed is called a winh

Define the following terms: 2.

 $1 \times 5 = 5$

- Syntax error (a)
- Gray codes (b)
- Bootstrapping is done in chain that is at each slage it is the work
- Interpreter
- describbles and unappear Main memory joste bushan

Answer the following questions: (any five) 2×5=10

> What are cast and size of operator? (a)

Define a structure. How do we access the data of the structure?

What are identifiers? Give example.

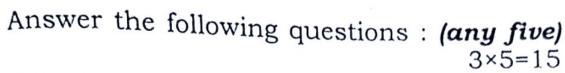
What are arithmetic operators? Explain (d) with example.

What are different types of functions in C-programming?

Which operator has the highest precedence?, (nowing (**) ...)

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- (a) What are control structures? Name the three types of control structures and write their purpose.
- Define a program. Explain the characteristics of a good program.
 - (c) Write the algorithm, draw a flowchart and write pseudocode:
 To find the sum of first 10 natural numbers.
 - Define pointer. How do we declare a pointer? Explain with example.
 - Define an array. What are different types of array? Give examples.
 - What do you mean by call by value and call by reference? Explain with example.
- 5. Answer any three questions: $5\times3=15$
 - (a) Write a program to take a number as input and print it after reversing.
 - Write a program to calculate sum of two matrix.
 - (c) Write a program to delete an element from the array.
 - (d) Write a program to copy a text file to another file.
 - (e) Write a program to find out minimum, maximum, sum and average of n numbers without using array.

```
Change the following while loops to for
     (a)
6.
          loops:
          x = 0;
          while (x<10)
introduction
             printf("%d", x);
             x++;
           Change the following for loop to while
      (b)
           loops:
           for (int x = 1; x < 100; x + +)
               printf ("%d\n", x);
            What will be printed from the following
       (c)
            code segment?
                 for (int x = 20; x > = 10; x - -)
            (i)
                    printf ("%d\n", x);
                 x = 12;
            (ii)
                 while (x > 7)
                   printf ("%d\n", x);
                   x--;
            Which of the following program segment
        (d)
             has a logical error in it?
                  q = &p;
```