

**B. Tech. SEM -I (Computer Science & Business Systems) (CBCS 2018,  
Course) : SUMMER - 2019**

**SUBJECT: FUNDAMENTALS OF COMPUTER SCIENCE**

Day: Tuesday  
Date: 14/05/2019

S-2019-2516

Time: 10.00 AM To 01.00 PM  
Max Marks. 60

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**N.B.**

- 1) All questions are **COMPULSORY**
  - 2) Figures to right indicate **FULL** marks.
  - 3) Draw neat and labelled diagram **WHEREVER** necessary.
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**Q.1** Define an algorithm? Write an algorithm and draw flowchart to find the largest of the 3 numbers. (10)

**OR**

Explain basic datatypes in C with proper syntax and example.

**Q.2** Explain use of goto labels, break and continue with appropriate example. (10)

**OR**

Enlist different types of control structures in C and write a 'C' program for following output

```
1
2 3
4 5 6
7 8 9 10
```

**Q.3** Explain following parameter passing mechanism (10)  
i) Call by value      ii) Call by reference

**OR**

Write a note on following

i) Extern      ii) Static      iii) Register      iv) Local

**Q.4** Define pointers? Write a program for addition of two number using pointers. (10)

**OR**

Explain concept of array? Write a program to find largest number in array.

**Q.5** Define structures? Write a program for student management system using structure. (10)

**OR**

Write a short notes on following I/O operations:

- a) getc
- b) putc
- c) fprintf
- d) gets
- e) puts

**Q.6** Explain low level I/O operations in UNIX system interface. (10)

**OR**

Explain difference between Macro and function

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