

# CBCS SCHEME

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18SFC23

## Second Semester M.Tech. Degree Examination, June/July 2019 Secured Programming

Time: 3 hrs.

Max. Marks: 100

**Note: Answer any FIVE full questions, choosing  
ONE full question from each module.**

### Module-1

- 1 a. Explain file descriptors, names and contents with example. (10 Marks)  
b. Explain local selection and character encoding. (10 Marks)

**OR**

- 2 a. Explain the concepts of separation of data and control. (10 Marks)  
b. Explain briefly about safe default value and load initializations. (10 Marks)

### Module-2

- 3 a. Explain identifier declaration with conflict linkage classification. (10 Marks)  
b. Explain correct syntax for declaring flexible array member. (10 Marks)

**OR**

- 4 a. Explain how to dereference null pointer and reading uninitialized memory. (10 Marks)  
b. Explain how to access variable through incompatible type. (10 Marks)

### Module-3

- 5 a. Explain integer conversions and misrepresented data. (10 Marks)  
b. Explain how to control integer overflow and divide by zero errors. (10 Marks)

**OR**

- 6 a. Explain domain and range errors in math functions. (10 Marks)  
b. Explain floating point conversions and preserving precision. (10 Marks)

### Module-4

- 7 a. Explain out of bounds subscript and valid length arrays. (10 Marks)  
b. Explain pointer arithmetic for non array object. (10 Marks)

**OR**

- 8 a. Explain narrow and wide character string and function with examples. (10 Marks)  
b. Explain how to compute memory allocation for an object. (10 Marks)

### Module-5

- 9 a. Explain EOF and WEOF concepts with examples. (10 Marks)  
b. Explain with examples fgets, fgetws, getc and putc. (10 Marks)

**OR**

- 10 a. Explain concepts of shared objects and signal handlers with examples. (10 Marks)  
b. Explain check and set in errno. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.