

# P P SAVANI UNIVERSITY

First Semester of B. Sc.(IT) Examination  
May 2019

SSIT1010 Introduction to Computer Science - I

23.05.2019, Saturday

Time: 12:30 p.m. To 03:00 p.m.

Maximum Marks: 60

## Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

### SECTION - I

- Q - 1 Answer the following (Any Five) [05]
- (i) What is prefix and postfix? [05]
- (ii) Explain header file. [05]
- (iii) Who is father of C language? [05]
- (iv) C programs are converted into machine language with the help of \_\_\_\_\_ [05]
- (v) Explain difference between signed and unsigned integer. [05]
- (vi) Which is the only function all C programs must contain? [05]
- (vii) What is EEPROM in computer? [05]
- Q - 2 (a) What is an operator? Explain the arithmetic, relational, logical and assignment operators. [05]
- Q - 2 (b) What is flowchart? Why it is important? [05]
- OR
- Q - 2 (a) Explain basic C program structure. [05]
- Q - 2 (b) What is Central Processing Unit (CPU)? Explain various components of CPU. [05]
- Q - 3 (a) Explain switch statement with syntax and example. [05]
- Q - 3 (b) Explain types of memory. [05]

OR

- Q - 3 (a) Explain different types of loops in C with syntax and example. [05]
- Q - 3 (b) Explain input and output devices. [05]
- Q - 4 Attempt any one. [05]
- (i) Write a code to find out year is leap year or not. [05]
- (ii) Write a C program to print the numbers from 4 to 9 and their squares.

### SECTION - II

- Q - 1 Answer the following (Any Five) [05]
- (i) What is the scope of a variable? [05]
- (ii) What is the need of return statement? [05]
- (iii) What are the difference between formal arguments and actual arguments? [05]
- (iv) What is recursion? [05]
- (v) What is the use of extern keyword? [05]
- (vi) What is the purpose of scanf() function? [05]
- (vii) What is user define function? [05]
- Q - 2 (a) What is function parameter? Explain with an example. [05]
- Q - 2 (b) What is an array? Give an example. [05]
- OR
- Q - 2 (a) Explain structure in C. Give an example. [05]
- Q - 2 (b) Explain break and continue statements. [05]

- Q - 3 (a) Explain union in C with an example. [05]  
Q - 3 (b) Write a program to find the area and perimeter of a circle. [05]

OR

- Q - 3 (a) Explain different string functions available in C. [05]  
Q - 3 (b) Write a C program to convert the given years into number of months and days. [05]  
Q - 4 Attempt any One. [05]  
(i) Write a code to add two matrices.  
(ii) Write a program to check whether a given number is even or odd.

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