B. E. First Semester (ALL) / SoE-18-19-Rev-FY-201 Examination

Course Code: IT 2101 Course Name: Introduction to Computer Programming

Time: 2 Hours] [Max. Marks: 40

Instructions to Candidates:—

- (1) Attempt any Four questions out of Six.
- (2) All questions carry **Ten** marks.
- (3) Assume suitable data wherever necessary.
- 1. Solve any One :—
 - (A) Discuss different types of errors in detail.

(B) (1) Write an algorithm and draw a flowchart to calculate simple interest.

OR

- (2) Write an algorithm and draw the flowchart to reverse the three digit number.
- 2. Solve any One :—
 - (A) Write a C program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade according to following:

Percentage >= 90% : Grade A

Percentage >= 80% : Grade B

Percentage >= 70% : Grade C

Percentage $\geq 60\%$: Grade D

Percentage >= 40%: Grade E

Percentage< 40%: Grade F

10

10

 \mathbf{OR}

(B) Write menu driven program to calculate the area of different geometrical images like circle, rectangle, triangle.

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Contd.

3. Solve any One :—	3.	Solve	anv	One	:—
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(A) Differentiate entry controlled and exit controlled loop in detail with example.

\mathbf{OR}

(B) Write a C program to convert decimal number into binary number. 10

4. Solve any One :—

(A) Differentiate Call by Value and Call by reference with example. 10

OR

(B) Write a program to display Fibonacci series by using Recursion and function with argument and no return value.

5. Solve any One :—

(A) Write a C program to input 'n' elements for an array and sort the array using Bubble sort.

OR

(B) Write a C program to input Two Dimensional (2D) Array and find the lowest element.

6. Solve any One :—

(A) Write C program to input two strings and check whether it is palindrome or not without using Standard Library Function.

OR

(B) Write a program to read the contents of files and count the new lines, words, spaces and tabs using command line arguments.

