- vi) A switch statement can always be replaced by series of if..else statements.
- 3. (a) Write a C program using nested if..else to find out the lowest of three given numbers. 3
 - (b) What will be the output of the following function if the value of "i=5":

printf("%d %d %d %d %d", i, ++i, i++, i++, ++i)

- (c) With an initial value a = 10, what is the value of a if we execute a = ++a + a++. Explain. (You are to consider GCC compiler).
- 4. (a) Write a C program to find out the largest amongst 6(six) given integers using ternary (?) operator and while loop. (Do not use if else or else if statements).
 - (b) Write a C program to find out whether a given number is odd or even using switch statement.
- 5. What is initialization? Why is it important? Describe the characteristics and purpose of escape sequence.

 1+1+4

B.Tech Even (Mid) Semester Examination-2021

Computer Science & Engineering / Agricultural Engineering / Electronics & Communication Engineering

Course No.: SOTCF-08 / ASH-203
(Computer System and Programming / Programming for Problem Solving)

Full Marks: 30
Pass Marks: 09/15

Time: 1½ hours

Note: 1. All questions are compulsory.

- 2. Answer parts of a question at a glance.
- 3. Assume reasonable data whereever required
- 4. The figures in the right margin indicate full marks for the question.
- 1. (a) What is Pseudo-code? What is the difference between Algorithm and Pseudo-code? 1+1
 - (b) What are those problems we may face without translators?
- 2. State whether the following statement is true or false
 - i) All variables must be given a type when they are declared.
 - ii) The scanf function can be used to read one variable at a time.
 - iii) In C, if data item is zero, it is considered as a false.
 - iv) The expression!($x \le y$) is same as expression x > y.
 - v) A printf statement can generate only one line output.

Turn Over