Roll No.

B. Tech. (Second Semester) Mid Semester EXAMINATION, 2016

(All Branches)

PROGRAMMING IN C

Time: Two Hours | Maximum Marks: 60

- Note: (i) This question paper contains three questions with alternative choice.
- (ii) All questions are compulsory.
- (iii) Each question carries four Parts (a), (b), (c) and (d). Attempt either Parts (a) and (b) or (c) and (d) of each question.
- (iv) Each Part carries ten marks. Total marks assigned to each question are twenty.
- 1. (a) What is an array ? Explain any three disadvantages of an array with example. 10
- (b) Write a program to enter n numbers in an array and then find sum of all numbers which are at odd indices. The student base

Or

- (c) What is an array ? Explain any two advantages of an array with example. Also show how we initialize a 2D array.
- (d) Draw a flowchart to input n numbers in an array and then calculate sum of all even numbers in that array.
- 2. (a) Write down an algorithm to input n numbers in an array and then print all those elements which are multiple of 4.
 - (b) Write a program to input a square matrix and calculate sum of both diagonals.

questions was alternative choice.

- (c) Draw a flowchart to input a matrix of order

 N × M and replace each elements with its

 square, also print the resultant matrix.
 - (d) Write a program to input two matrices.

 Calculate their multiplication and print the final matrix. Also apply proper validation and print it.
- 3. (a) Define function and also explain function declaration, calling and definition with an examplenumber should pass as an argument and result should print in main function. 10

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- (c) Write advantages of function in C. Explain actual and formal parameter with an example.
- (d) Write a program to calculate a^b using function (without using pow() function). 10

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