

END TERM EXAMINATION

SECOND SEMESTER [B.TECH] MAY-JUNE 2016

Paper Code: ETCS-108

Subject: Introduction to Programming
(Batch 2013 Onwards)

Time: 3 Hours

Maximum Marks: 75

Note: Attempt any five questions including Q.no.1 which is compulsory.

- Q1 Write brief note on following: (5x5=25)
- (a) Structures Vs Unions.
 - (b) Switch statement Vs Multiple if.
 - (c) Break Vs Continue.
 - (d) Linker, Loader Vs Compiler.
 - (e) Formal Vs Actual Arguments.
- Q2
- (a) Differentiate between auto, static, extern local and global variable with respect to their lifetime, scope and access rights. (6)
 - (b) Differentiate between do-while and while-do loop with the help of an example. (6.5)
- Q3
- (a) Write a program in C which reads a string and after finding its length, program print back the string in reverse order. Do not use any in built function. (6)
 - (b) What do you mean by enumerated data types? Are they different from strings? Explain their use. (6.5)
- Q4
- (a) Differentiate between Sequential/Random files in terms of the time taken for insertion, deletion and updation of records. (6)
 - (b) Explain different classifiers for formatted outputs with example. (6.5)
- Q5 Give function name, syntax and corresponding header file to achieve the following: (12.5)
- (a) To open a file in read mode.
 - (b) To clear the input buffer.
 - (c) To clear the output buffer.
 - (d) To read the buffered strings.
 - (e) To read the character Un-buffered.
 - (f) To read the whole line from input.
- Q6
- (a) Write a program in C which reads an array of size n, find how many numbers in the array are even, odd and count them and print the information. (6)
 - (b) Write a program in C which reads a array of integers. Each element of the array is replaced by its square. Print back the array. (6.5)
- Q7
- (a) Differentiate between call by value and call by reference parameter passing mechanism with the help of an example. (6)
 - (b) In C, when arrays are passed to the function, which mechanism do they follow? Is there any relation between pointers and array's name? Explain. (6.5)

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