

Government College of Engineering, Amravati

(An Autonomous Institute of Government of Maharashtra)

Class Test - II (W-2016) Course Code and Name - CSU101 Computer Science Marks: 15 Time: 1Hr

Q.1] Assume that the two variables ~~p~~ and ~~q~~ are stored at 1000 and 2000 memory address respectively [3m]

If `int p = 10; int q = 20; int *r = &p; int *s = &q;`

Write down the outputs for the given terms:- `r, s, *r, *s, *(&r), *(&s)`

Q.2] Explain storage classes in context with their storage, default initial value, scope and life [4m]

Q.3] Write a program to swap two user given no.s, using parameter passing mechanisms [4m]

Solve any one:

Q.4] A] Write a program to find whether the user given string is palindrome or not, using string functions both [4m]

Q.4] B] Write a program to perform addition, transpose & multiplication operations on matrices

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- 1) Explain function with syntax and one example. 5
 - 2) Explain different storage classes. 5
 - 3) Write a program to find out addition of diagonal elements of matrix (size 3*3). 5
- OR**
- 4) Write a single function which calculates and returns both area of circle and triangle. 5

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Solve any three:

- (C.1) How many storage classes are available in C? Differentiate automatic and static class in detail with example.
- (C.2) What is an array? Write a program to find multiplication of two 3×3 matrices.
- (C.3) Design a program that finds the length of the string provided by the user and checks whether the string is palindrome or not.
- (C.4) Write a program to find factorial of a number given by user using: a) non-recursive function and