

GOVERNMENT COLLEGE OF ENGINEERING AURANGABAD

(An Autonomous Institute of Government of Maharashtra)

B.E. (ECT) Examination

End Semester Examination NOV2016

ET246: C-PROGRAMMING

Time: Three Hours

25 NOV 2016

Max. Marks: 50

"Verify the course code and check whether you have got the correct question paper"

N.B:-

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Assume suitable data if necessary and state it clearly.
4. Use of non-programmable calculator is allowed.

- Q1.** A. 1) Write a program to read two floating point numbers from user (02)
- a. Divides the first number by second and display the result along with numbers
 - b. Assign their sum to an integer variable and then output the values of all the three variables.
- 2) Write a program to reverse the five digit number entered through the keyboard..... (03)
- B. Write a program to calculate the simple interest and addition of diagonal elements in matrix..... (05)
- Q2.** A. What is string? Give its declaration with example and write a program to count the occurrence of a digit in a number..... (05)
- B. If the ages of Ram, Shyam and Ajay are input through the keyboard, write a program to determine the youngest of the three..... (05)
- Q3.** A. 1) If the three sides of a triangle are entered through the keyboard write a program to check whether the triangle is valid or not. The triangle is valid if the sum of two sides is greater than the largest of the three sides..... (02)
- 2) If the three sides of a triangle are entered through the keyboard, write a program to check whether the triangle is isosceles, equilateral and right angled triangle..... (03)
- B. Write a program to print all prime number from 1 to 300 and write a program to print out all Armstrong numbers between 1 and 500..... (05)

Q4. A. Swap two numbers using functions that program should illustrate using (1) call by value (2) call by reference..... (05)

B. 1) Write a function that receives marks received by student in 3 subjects and returns the average and percentage of these marks. Call this function from main() and print the result in main()..... (02)

2) enter 5 digit integer through keyboard, write a function to calculate sum of digits of the 5 digit number using (1) without recursion (2) with recursion..... (03)

Q5. A. Give the use of following functions

1. Strcpy()
 2. Strcat()
 3. Strcmp()
 4. fopen, fclose
 5. Switch
- (05×1=05)

B. 25 numbers are entered from the keyboard into an array

- 1) write a program to find out how many of them are positive, negative even, odd
- 2) write a program to copy the contents of array into another array in the reverse order..... (05)