Government College of Engineering, Amravati
(An Autonomous Institute of Government of Maharashtra)

I Sem.B. Tech. (All Branch)

Winter – 2018

Course Code: CSU101

Course Name: Computer Programming

Time: 2 Hrs. 30 Min.   Max. Marks: 60

Instructions to Candidate
1) All questions are compulsory.
2) Assume suitable data wherever necessary and clearly state the assumptions made.
3) Diagrams/sketches should be given wherever necessary.
4) Use of logarithmic table, drawing instruments and non-programmable calculators is permitted.
5) Figures to the right indicate full marks.

1.   Solve: (any two)

   a)   Describe the main features of C language with examples.   6

   b)   Differentiate among compiler, interpreter and assembler.   6

   c)   Explain type conversion in C with example.   6

2.   Solve: (any two)

     a)   Define operators in C. What is the role of operator   6
in C?

     b)   Write a program to print reverse of a number   6

     c)   What is function? List the advantages of the   6
functions?

3.   Solve

     a)   Write short notes on:
a) Passing arrays as arguments   6
b) Passing array within structure
                  [OR]
     b)   What are register variables? What is the   6
advantage of using register variables?

     c)   Explain the syntax & usage of getchar() &   6
putchar() with example

4.   Solve

     a)   Define structure and explain how it differs from   6
other data types.

     b)   How do you use a pointer to a function?   6

5.   Solve

     a)   Write a program to read text file and to count the   6
no of uppercase letters in a given file.

     b)   What are the different types of operating modes of   6
files? Explain with an example.