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

## First Semester B. Tech. (All Branches)

### Winter - 2016

Course Code: CSU101 Course Name: Computer Science Time: 2 Hrs. 30 Min.

Max. Marks: 60

## Instructions to Candidate

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 nonprogrammable calculators is permitted.
- Figures to the right indicate full marks.

#### 1. Solve any two

- What is operator? Explain different types of a) operator available in C
- Explain basic Built-in Data Types in C b)

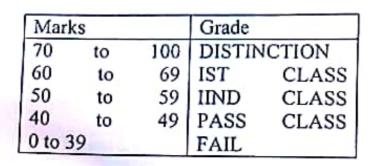
06

Write a program to calculate simple interest c) (SI=p\*n\*r/100)

#### 2 Solve any two

Write program using If else to grade the student a) according to the following rules

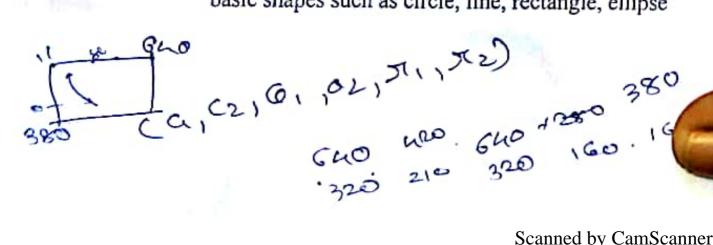
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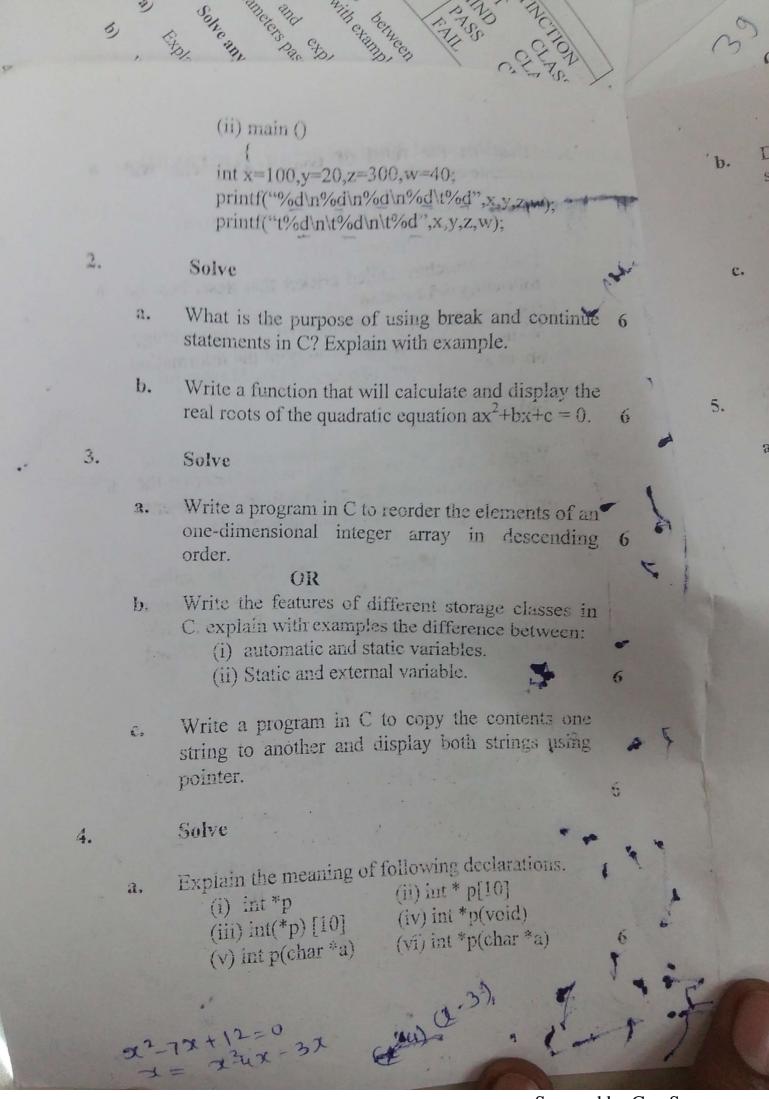


- b) Differentiate break between and continue 06 statement with example?
- c) explain List and with example different 06 parameters passing techniques?

#### 3 Solve any two

- a) Explain various storage classes in C
- b) Write a program to find smallest element in array of 10 elements.
- Write a program to find the transpose of a matrix. c) 06
- What is array of pointers and pointers to array? a) 06
  - Write a user define function to reverse the string b) 06
- 5 a) Write a program to accept name, age, address, 06 salary of 100 employees and print the total and average salary. Make use of structure concept.
  - b) Write a program C graphics program to draws 06 basic shapes such as circle, line, rectangle, ellipse





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b. Describe the rules of pointer arithmetic with suitable examples.

## OR

following information:

(i) player name (ii) team name (iii) batting average
Write a program to read and print the information
about all 11 players of a team.

#### 5. Solve

- a. What are command line arguments? Describe the information represented by each formal arguments in function main with suitable an example.
- b. Write a C program to read the file called NUMBERS containing series of 20 integer numbers and then write the odd numbers to a file called ODD and all even numbers to a file called EVEN.

#### OR

c. Write a program to draw rectangle with red color 6 and circle with blue color.

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#### Solve any two 1.

- What is operator? Explain different types of 06 a) operator available in C
- 06 Explain basic Built-in Data Types in C b)
- Write a program to calculate simple interest (c) (SI=p\*n\*r/100)

#### Solve any two 2

Write program using If else to grade the student 06 according to the following rules

ite a function Cc., 2, 2 and 3 where

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OR

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#### Government College of Engineering, Amravati (An Autonomous Institute of Government of Maharashtra) ati First Semester B. Tech. (All Branches) ourse Code Winter - 2016 3M Course Code: CSU101 2MCourse Name: Computer Science Time: 2 Hrs. 30 Min. Max. Marks: 60 51 Instructions to Candidate 5 1) All questions are compulsory. nt? 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 nonprogrammable calculators is permitted. 5) Figures to the right indicate full marks. i (W-201 1. Solve any two 15 What is operator? Explain different types of 06 operator available in C (Each q Explain basic Built-in Data Types in C b) 06 number Write a program to calculate simple interest 06 ion of t (SI=p\*n\*r/100)alculat 2 Solve any two Write program using If else to grade the student 06 according to the following rules ATI s: 15

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Course Code and Name - CSU101 Computer Science built in data types in C along with its range, memory bytes require

rial of a user given no. using for, while and

bk (T)

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

## First Semester B. Tech. (All Branches)

#### Winter – 2016

Course Code: CSU101 Course Name: Computer Science

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

#### **Instructions to Candidate**

1) All questions are compulsory.

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#### Solve any two 1.

- What is operator? Explain different types of 06 a) operator available in C
- Explain basic Built-in Data Types in C 06 b)
- Write a program to calculate simple interest 06 c) (SI=p\*n\*r/100)

#### Solve any two 2

Write program using If else to grade the student 06 a) according to the following rules

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nment College of Engineering, Amravati

## First Semester B. Tech. (ALL)

Winter - 2015

Course Code: Computer Science

Course Name: CSU101

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, dra ving instruments and non-programmable calculators is permitted.
- 5) Figures to the right indicate full marks.

#### Solve:

- (a) i) List the keywords and variables for the given 2m program
  - ii) Find associativity of the operators: Conditional, 3m Assignment and Bitwise AND
- (b) Write down the instructions available in C 4m
- (c) How many "Reserved words" are available in C? 3m Write down any four built-in data types in C

Contd..

- (a) What is a function? Explain it with suitable example.
- (b) Write a C program for checking whether an 6 entered number is prime number or not, using while loop (Use break if possible)
- (c) Write a C program to print the given star pattern 6m using nested for loop

1 2 3 1 2 3 1 2

- 3 Solve:
  - (a) Explain storage classes in brief with their storage, 8m default initial value, scope and life
  - (b) Write a C program with a function to sort an 4m array in ascending order.

OR

- (c) Define strings. List all its standard library 4m functions and explain any one of it with an example
- 4 Solve:
  - (a) i) Define pointer arithmetic

2m

OR

- ii) Fill In The Blanks: A String is terminated by 2m character, which is written as
- (b) Assume that the two variables r and s are stored 4m at 1000 and 2000 memory address respectively

  If int r=30; int \*p=&r; int \*s = &p

  Write down the outputs for the given terms r, s,
  &r. &s, \*p, \*s. \*(&r). \*(&s)

(c) Write a C Program to find length of a string 6m without using library function (Use Pointers)

Solve any two:

- (a) Write a C Program to print name, prices and 6m pages for 100 books stored in a libraray, using array of structures
  - (b) Define graphics mode and initgraph() function. 6m Write a C program for drawing a line and printing its slope using graphics in C
  - (c) Explain "r", "w" and "a" opening modes of file in 6m detail

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#### 1. Solve any two

- a) What is operator? Explain different types of 06 operator available in C
- b) Explain basic Built-in Data Types in C 06
- c) Write a program to calculate simple interest 06 (SI=p\*n\*r/100)

### 2 Solve any two

a) Write program using If else to grade the student 06 according to the following rules

