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**Question Paper Code : 41177**

06/06/18

(FN)

**B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018**

**First Semester**

**Civil Engineering**

**GE 6151 – COMPUTER PROGRAMMING**

**(Common to All Branches Except Marine Engineering)**

**(Regulations 2013)**

**Time : Three Hours**

**Maximum : 100 Marks**

**Answer ALL questions.**

**PART – A**

**(10×2=20 Marks)**

1. Convert 1589 to binary.
2. Present the difference(s) between algorithm and pseudo-code.
3. Give the structure of a C program.
4. Write a C program to swap the values stored in two integer variables.
5. What are the advantages of using arrays ?
6. Write an algorithm to search an element in an array.
7. What is meant by recursion ? Give an example.
8. How is a pointer variable initialized ?
9. State the need for structured data type in C.
10. What are preprocessor directives ? Give examples.

**PART – B**

**(5×16=80 Marks)**

11. a) i) Explain the advancements of computers in different generations. (8)
- ii) Write a pseudocode to calculate the roots of a quadratic equation. (8)
- (OR)
- b) i) List and explain the classification of computers. (8)
- ii) State the need for flowcharts. Draw a flowchart reflecting the steps to check if a number is prime or not (8)



12. a) i) Explain the data types supported by C language with suitable examples. (8)
- ii) Write a C program to design a calculator to perform addition, subtraction, multiplication and division. (8)
- (OR)
- b) i) Explain the different looping constructs in C. (8)
- ii) Write a C program to reverse the digits of a number. (8)
13. a) i) Write a C program to remove the duplicate numbers present in an array and display the remaining numbers. (8)
- ii) Explain the purpose of any four string functions. (8)
- (OR)
- b) i) Write a C program to sort ten integers in ascending order without using any inbuilt functions. (8)
- ii) Write a C program to add two matrices. (8)
14. a) State the need for user define functions. Explain call by value and call by reference methods using examples. (16)
- (OR)
- b) i) Explain the relation between arrays and pointers with examples. (8)
- ii) Write a program to count the vowels and consonants in a string using pointers. (8)
15. a) Explain the basic structures and nested structures with suitable examples. (16)
- (OR)
- b) Explain, with examples, the different types of storage classes in C. (16)

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**Question Paper Code : 53124**

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY, 2019.

First Semester

Civil Engineering

GE 6151 — COMPUTER PROGRAMMING

(Common to All Branches)

(Regulation 2013)

(Also common to PTGE 6151 — Computer Programming for First Semester — Civil Engineering / Computer Science and Engineering — Regulation — 2014)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — ( $10 \times 2 = 20$  marks)

1. State the components of a computer.
2. Convert the following numbers in one format to other format mentioned:  
 $(0100101000000001)_2 = (x)_{16}$  and  $(E7A9)_{16} = (x)_{10}$ .
3. What are variables? Give examples.
4. Define implicit type conversion.
5. List out any four string handling functions in C language.
6. Define array. Write the syntax for 2D array.
7. Write the need for functions.
8. What is recursive function?
9. What do you mean by structures?
10. Give the use of preprocessor.

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PART B — (5 × 16 = 80 marks)

11. (a) Explain the various classifications of computers in detail.

Or

- (b) Explain the various number systems in detail.

12. (a) (i) Explain the different types of operators available in C. (8)  
(ii) What are constants? Explain the various types of constants in C. (8)

Or

- (b) (i) Describe the various looping statements used in C with suitable examples. (8)  
(ii) Write a C program to solve the quadratic equation. (8)

13. (a) (i) Write a C program to count the number of vowels in your name. (6)  
(ii) Write a C program to multiply two matrices. (10)

Or

- (b) (i) Write a C program to check whether the given string is palindrome or not. (6)  
(ii) Write a C program to arrange the given 10 numbers in descending order. (10)

14. (a) Explain about pass by value and pass by reference with an example program for each.

Or

- (b) With an example program explain about pointer to an array and array of pointers.

15. (a) (i) What is storage class? List and explain with example. (8)  
(ii) Define and declare a structure to store date, which including day, month and year. (8).

Or

- (b) Write a C program to create mark sheet for students using structure. (16)





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**Question Paper Code : 50648****B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2017****First Semester****Mechanical Engineering****GE 6151 – COMPUTER PROGRAMMING**

(Common to Mechanical Engineering, (Sandwich), Aeronautical Engineering, Agriculture Engineering, Automobile Engineering, Biomedical Engineering, Civil Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Electronics and Instrumentation Engineering, Environmental Engineering, Geoinformatics Engineering, Industrial Engineering, Industrial Engineering and Management, Instrumentation and Control Engineering, Manufacturing Engineering, Marine Engineering, Materials Science and Engineering, Mechanical and Automation Engineering, Mechatronics Engineering, Medical Electronics Engineering, Metallurgical Engineering, Petrochemical Engineering, Production Engineering, Robotics and Automation Engineering, Biotechnology, Chemical Engineering, Chemical and Electrochemical Engineering, Fashion Technology, Food Technology, Handloom and Textile Technology, Industrial Biotechnology, Information Technology, Leather Technology, Petrochemical Technology, Petroleum Engineering, Pharmaceutical Technology, Plastic Technology, Polymer Technology, Rubber and Plastics Technology, Textile Chemistry, Textile Technology)  
(Regulations 2013)

**Time : Three Hours****Maximum : 100 Marks****Answer ALL questions.****PART – A****(10×2=20 Marks)**

1. Convert the given octal number  $12570_8$  into decimal number.
2. What is Flowchart ?
3. What is the difference between while loop and do while loop ?
4. What is the use of size of ( ) operator ?



5. What are the features of array ?
6. Differentiate between Linear search and Binary search.
7. Distinguish between Call by value Call by reference.
8. What are the advantages of using pointers in a program ?
9. Define in C++. Define 'Structure' of C language. Give an example.
10. What storage classes are available in C language ?

PART – B

(5×16=80 Marks)

11. a) i) Explain in detail about the characteristics of computer. (6)  
 ii) Describe in detail about the classification of computers with their features and limitations. (10)  
 (OR)  
 b) i) Give pseudocode algorithm and the flowchart to print the Fibonacci series of n terms. (8)  
 ii) Write an algorithm and draw the flowchart to find the largest among three numbers. (8)
12. a) Explain the different types of operators available in C with example. (16)  
 (OR)  
 b) i) With an example program explain the various decision making statements available in C. (8)  
 ii) Explain switch case statement and 'for' loop statement with suitable example. (8)
13. a) i) What is an array ? Write a C program to arrange the given 10 numbers in ascending order using one dimensional array. (8)  
 ii) Write a C program to multiply two  $3 \times 3$  matrices. (8)  
 (OR)  
 b) Write a C program to count the number of Vowels Consonants, Digits and Spaces in a given string. Discuss the algorithm for the same. (16)

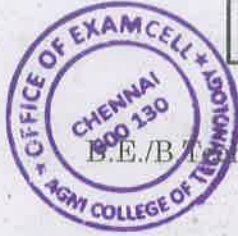
14. a) Explain about the different parameter passing methods in functions with examples. (16)  
 (OR)  
 b) i) Write a C program to swap the content of two variables using pointers. (8)  
 ii) Write a C program to read integers into an array and reversing them using pointers. (8)
15. a) Write a C program and algorithm to create mark sheet for students using structure. (16)  
 (OR)  
 b) Write algorithm and a C program using unions, to prepare the employee pay roll of a company. (16)

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**Question Paper Code : 20627**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.

First Semester

Civil Engineering

GE 6151 — COMPUTER PROGRAMMING

(Common to All Branches)

(Regulations 2013)

(Also common to: PTGE 6151 — Computer Programming for First Semester —  
Civil Engineering/ Computer Science and Engineering — Regulations — 2014)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Differentiate between analog computer and digital computer.
2. Define Algorithm.
3. List the various input and output statements in C.
4. What are the basic data types in C?
5. What is an array?
6. What is string?
7. Compare local variables and global variables.
8. What is the use of pointer variable?
9. Define union.
10. What are the storage classes available in C?



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PART B — (5 × 16 = 80 marks)

11. (a) Explain the basic organization of a computer with neat diagram. (16)

Or

- (b) (i) Convert the decimal number 378 into binary, octal and hexadecimal equivalent. (6)  
(ii) Write the pseudo code and draw a flowchart to find the given number is even or odd. (10)

12. (a) Explain the various types of operators available in C with suitable examples. (16)

Or

- (b) (i) Describe the various looping statements used in C with suitable examples. (12)  
(ii) Write a short note on constants. (4)

13. (a) (i) Write a C program to find the largest number among  $n$  numbers. (8)  
(ii) Discuss the various string handling functions in C. (8)

Or

- (b) Write a C program to multiply two matrices. (16)

14. (a) (i) Write a C program to generate the fibonacci series using function. (8)  
(ii) Write a C program to exchange the values of two variables using pass by reference. (8)

Or

- (b) (i) Write a C program to find the Greatest Common Divisor (GCD) using recursive function. (8)  
(ii) Write a C program to count the number of words in a string using pointers. (8)

15. (a) Define a structure called bank with account number, name of the customer, account balance. Write a C program to read the details of account number, name of the customer, account balance of 500 customers and print the account number, name of the customer and the account balance whose account balance is below Rs.1000. (16)

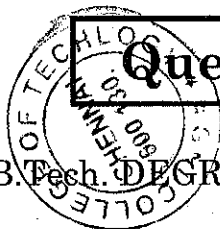
Or

- (b) Explain the preprocessor directives with suitable examples. (16)



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**Question Paper Code : 91659**

**B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2019**

**First Semester**

**Civil Engineering**

**GE 6151 – COMPUTER PROGRAMMING**

**(Common to all Branches)**

**(Regulations 2013)**

**(Also Common to : PTGE 6151 – Computer Programming for B.E. (Part-Time) –**

**First Semester – Civil Engineering – Regulations – 2014)**

**Time : Three Hours**

**Maximum : 100 Marks**

**Answer ALL questions.**

**PART – A**

**(10×2=20 Marks)**

1. What is super computer ? Give an example.
2. Define pseudo code.
3. List the types of operators in C.
4. Write a for loop statement to print numbers from 10 to 1.
5. What is an array ?
6. Define string literal. Give examples.
7. Write the syntax of function. Write about the components of it.
8. What is dynamic memory allocation ? List the commands used for dynamic memory allocation.
9. How will you define a structure in 'C' ? What is the use of it ?
10. List the preprocessor directives available in C.



## PART – B

(5×16=80 Marks)

11. a) Write in detail about the various generations of computers. (16)

(OR)

b) Explain about flowchart, algorithm and Pseudo code with example. (16)

12. a) i) Write simple programs to demonstrate the arithmetic and logical operators in C. (10)

ii) Discuss the basic data types in C. (6)

(OR)

b) i) Describe the various input and output statements in C with suitable examples. (6)

ii) Write a C program for the print following pattern: (10)

1

1 2

1 2 3

1 2 3 4

13. a) i) Write a C program to add two matrices. (10)

ii) Write a C program to search a given number in an array of elements. (6)

(OR)

b) i) Write a C program to arrange the given 'n' numbers in ascending order. (10)

ii) Explain the various string handling functions in 'C'. (6)

14. a) Explain the concept of parameter passing by :

i) value and (8)

ii) reference between functions in detail with example. (8)

(OR)

b) What are Pointers ? Explain in detail about the declaration and usage of Pointers. Write sample program. (16)

15. a) i) What is Union in 'C' ? Explain with example program in detail. (8)

ii) Write short notes on storage classes. (8)

(OR)

b) Write a program to create students mark processing application using array of structures. (16)