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**Question Paper Code : 37007**

B.E./B.Tech. DEGREE EXAMINATION, JANUARY 2014.

First Semester

Civil Engineering

GE 6151 — COMPUTER PROGRAMMING

(Common to all branches)

(Regulation 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List some important hardware and software technologies of fifth generation computers.
2. Write two characteristics of pseudocode.
3. What are various types of C operators?
4. Write a for loop statement to print numbers from 10 to 1.
5. Define array.
6. Name any two library functions used for string handling.
7. What is the need for functions?
8. What is the uses of pointers?
9. Write any two preprocessor directives in C.
10. Differentiate between structure and union.

## PART B — (5 × 16 = 80 marks)

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

Or

- (b) Explain the basic computer organisation using a neat diagram. (16)
12. (a) Write about the need and types of looping statements in C language and discuss with examples. (16)

Or

- (b) Write about the need and types of branching statements in C language and discuss with examples. (16)
13. (a) (i) Write a C program to reverse a string. (8)  
(ii) Write a C program to print the Fibonacci series of a given number. (8)

Or

- (b) Write a C program to find the sum of two matrices. (16)
14. (a) Explain the following with suitable examples.  
(i) Function declaration (8)  
(ii) Call by reference, call by value. (8)

Or

- (b) (i) Explain function with and without arguments with example for each. (10)  
(ii) What is recursion? Give an example. (6)
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 : 57408**

**B.E/B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016**

**First Semester**

**Civil Engineering**

**GE 6151 – COMPUTER PROGRAMMING**

**(Common to all branches)**

**(Regulations 2013)**

**Time : Three Hours**

**Maximum : 100 Marks**

**Answer ALL questions.**

**PART – A (10 × 2 = 20 Marks)**

1. Classify the computers based on performance, size, cost and capacity.
2. Convert the binary number 10110111.1101 into decimal number.
3. What are variables ? Give examples.
4. Define implicit type conversion.
5. What is an array ?
6. Define string. Give examples.
7. Specify the advantages of functions.
8. How is pointer arithmetic done ?
9. What do you mean by structures ?
10. State the importance of union.

**PART – B (5 × 16 = 80 Marks)**

11. (a) (i) Describe the basic computer organization with neat diagram. (10)  
(ii) Draw the flowchart to solve the quadratic equation. (6)

**OR**

- (b) (i) Explain the various generations of computers. (8)  
(ii) What is pseudo code ? Explain its guidelines and benefits. (8)

12. (a) (i) Explain the different types of operators available 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. (10)  
(ii) Write a C program for the following series : (6)  
 $1 + 2 + 3 + 4 + \dots + n$

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) (i) Write a C program to find the smallest and largest number from the given 10 numbers using functions. (10)  
(ii) Explain the pass by reference with an example. (6)

**OR**

- (b) (i) Write a C program to find the factorial of a given number using recursion. (8)  
(ii) Write a C program to count the number of words in a string using pointers. (8)

15. (a) Define a structure called student would contain name, register number and marks of five subjects and percentage. Write a program to read the details of name, register number and marks of five subjects for 25 students, calculate the percentage and display the name, register number, marks of 25 subjects, percentage of all the students and also the name of the student who got highest percentage among the 25 students. **(16)**

**OR**

- (b) (i) Explain the various storage classes in C. **(8)**  
(ii) Describe about the preprocessors with suitable example. **(8)**

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**Question Paper Code : 71938**

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 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 (Fashion Technology), Textile Technology (Textile Chemistry))

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is an algorithm?
2. What is flow chart?
3. What are the main steps of problem solving?
4. What are the different types of constants available in C?
5. List out any four string handling functions.

6. What is an array? How will you create a 2D array?
7. What are the components of a function?
8. What is dynamic memory allocation? What are the various dynamic memory allocation functions?
9. What are storage classes? What are the storage classes available in C?
10. Define pre-processor directives in C.

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) Explain various operators in C Language in detail.  
Or  
(b) Explain various input and output functions of C language in detail.
13. (a) Explain the concept of strings in detail.  
Or  
(b) (i) Explain sorting of a one dimensional array with example program.  
(ii) Write a program to check whether an element is present or not in an array or not using binary search method.
14. (a) Explain the concept of parameter passing by  
(i) value and  
(ii) reference between functions in detail with example program.  
Or  
(b) Explain in detail the concept of pointer in C language.
15. (a) Explain various storage classes used in C with example program in detail.  
Or  
(b) Explain in detail the concept and importance of structures with example program in C language.



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**Question Paper Code : 77156**

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2015.

First Semester

Civil Engineering

GE 6151 — COMPUTER PROGRAMMING

(Common to all branches)

(Regulation 2013)

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. What is the importance of keywords in C?
4. List the various input and output statements in C.
5. What is an array? Give an example.
6. How is a character string declared?
7. Compare actual parameters and formal parameters.
8. What is the output of the following program?  

```
main ( )
{
int a=8, b=4, c, *p1=&a, *p2=&b;
c=*p1**p2.*p1/*p2+9;
printf("%d",c);
}
```
9. What do you mean by structures?
10. Give the use of preprocessor.

## PART B — (5 × 16 = 80 marks)

11. (a) (i) Describe various generations of computers. (10)  
 (ii) Convert the decimal number 681.75 into binary, octal and hexadecimal equivalent. (6)
- Or
- (b) (i) Explain the basic organization of a computer with neat diagram. (10)  
 (ii) Draw a flowchart to check whether the given number is zero, positive or negative. (6)
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 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 10 numbers in ascending order. (10)  
 (ii) Explain the various string handling functions. (6)
14. (a) (i) Write a C program to find the factorial of a given number 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 sum of the digits using recursive function. (8)  
 (ii) Write a C program using pointers to read in an array of integers and print its elements in reverse order. (8)
15. (a) Define a structure called book with book name, author name and price. Write a C program to read the details of book name, author name and price of 200 books in a library and display the total cost of the books and the book details whose price is above Rs.500. (16)
- Or
- (b) (i) Explain the various storage classes in C. (10)  
 (ii) What is union? Discuss with an example. (6)

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**Question Paper Code : 80502**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016.

First Semester

Civil Engineering

GE 6151 — COMPUTER PROGRAMMING

(Common to all branches)

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 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 the data types available in C?
4. Differentiate between While statement from Do... While statement.
5. What is an array? Give the syntax of declaring an array and initializing it.
6. How do you declare strings in 'C'?
7. What are functions in C? How will you define a function in C?
8. What is a Pointer? What are the use of Pointers?
9. How will you define a structure in 'C'? What is the use of it?
10. What is Union in C? How to define a union in C?

## PART B — (5 × 16 = 80 marks)

11. (a) Explain about algorithm, pseudocode and flow chart with an example of finding the sum of 'n' number.

Or

- (b) Explain the basic organization of a computer with a neat diagram in detail.
12. (a) Explain about various branching structures and looping structures in C language with example program for each.

Or

- (b) Explain about the managing of input and output operations in 'C'. With a snippet code, explain the syntax of scanf( ), printf( ), gets( ), getchar ( ), and getch( ).
13. (a) Explain the concept of arrays in detail with an example program.

Or

- (b) Write a program in C to
- (i) Add and
  - (ii) Multiply two given matrices.
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) Explain about union variable in C with an example program in detail.
- (ii) Write short notes on pre-processor directives.

Or

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