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Question Paper Code : X20657

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020

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. List some important hardware and software technologies of fifth generation computers.
2. Write two characteristics and advantages of pseudocode.
3. What is the importance of keywords in C ?
4. List the various input and output statements in C.
5. Give the syntax of declaring an array and initializing it.
6. How do you declare strings in 'C' ?
7. Specify the advantages of functions.
8. How is pointer arithmetic done ?
9. What are the storage classes available in C ?
10. Define pre-processor directives 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) 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) Explain the concept of strings in detail. **(16)**
(OR)
- b) i) Explain sorting of a one dimensional array with example program. **(8)**
ii) Write a program to check whether an element is present or not in an array or not using binary search method. **(8)**
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 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 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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