

2025

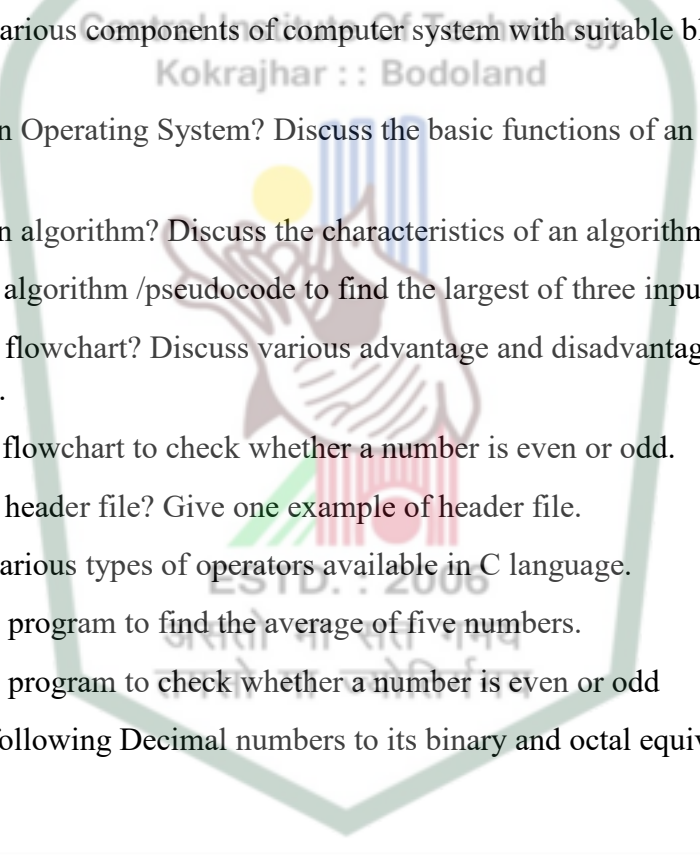
Computer Fundamentals & Programming

Full Marks : 100

Time : Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions.

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1. a) Discuss various components of computer system with suitable block diagram. 10
b) What is an Operating System? Discuss the basic functions of an operating system. 10
 2. a) What is an algorithm? Discuss the characteristics of an algorithm. 5
b) Write the algorithm /pseudocode to find the largest of three input numbers 15
 3. a) What is a flowchart? Discuss various advantage and disadvantages of flowchart. 7
b) Draw the flowchart to check whether a number is even or odd. 10
c) What is a header file? Give one example of header file. 3
 4. Discuss various types of operators available in C language. 20
 5. a) Write a C program to find the average of five numbers. 10
b) Write a C program to check whether a number is even or odd 10
 6. Convert following Decimal numbers to its binary and octal equivalent 20
a) 294_{10}
b) 1792_{10}
 7. What is a browser? How does it work? How do search engines work? 3+7+10
 8. Write short notes (any two) 20
a) DNS
b) HTTPS
c) Memory Hierarchy

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