

110

Day & Date	Semester	Subject Name	Time	Code	Marks
Friday 29/03/2019	IV (Fresh)	Object Oriented Programming using C++	11.00 AM To 01.30 PM	4104	75

**Instruction:**

- I) Question No. 1 is compulsory
- II) Attempt any 4 questions from Question No.2 to Question No. 8
- III) Figure to right indicates full marks

- 
- Q1) Explain following terms 15
- a) Caller and callee
  - b) EOF and BOF
  - c) Built in and user define data types
  - d) Friend
  - e) `#include<iostream.h>`
- Q2) a) Explain the basic concept of OOPS 10  
b) Explain Memory Management operator 5
- Q3) a) Explain user define data types and write its syntax 10  
b) Differentiate between call by value and call by reference 5
- Q4) a) What is difference between member functions defined inside and outside the body of a class? 5  
b) List the ten rules for Operator Overloading 5  
c) Write a short note on this pointer 5
- Q5) a) What is a class? Describe the syntax for declaring a class with examples 5  
b) Explain function prototyping. 5  
c) State the characteristics the static variables and static function 5
- Q6) a) Explain how files can be opened and closed in C++. 7  
b) Explain constructor. List out its characteristics. 8
- Q7) a) Explain the concept of default argument with example 5  
b) Write a short note on inheritance and its type 10
- Q8) a) Write a program to implement multiple inheritance 5  
b) Write a program to implement multiple constructor 5  
c) Write a program to swap 2 number using reference variable 5

Day & Date	Semester	Subject Name	Time	Code	Marks
Tuesday 26/03/2019	IV (Fresh)	Data Structures and File Organization	11.00 AM To 01.30 PM	4101	75

Instruction:

- I) Question. 1 is compulsory
- II) Attempt any 4 from Q.2 to Q.8
- III) Figures to the right indicate full marks

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4101 Papers

- Q.1 Define the following terms (15)
- a) Collision
  - b) Link List
  - c) Dequeue
  - d) Binary Tree
  - e) Weighted Graph
- 
- Q.2 a) What is Hashing ? Explain Hashing Functions with example (8)
- b) Write a program for traversing of an array (7)
- Q.3 a) Explain Classification of data structure (8)
- b) Explain the following terms (7)
- i) Adjacency List
  - ii) Threaded Binary Tree
- Q.4 a) Make expression tree and give all traversing orders for (8)
- $$(a + b) * (c + d) / e + f - (g * h)$$
- b) Write Shortest path algorithm (7)
- Q.5 a) Write a program for operations on a Stack(PUSH and POP) (8)
- b) Write an algorithm for DFS and explain with example (7)
- 
- Q.6 a) Explain the following (8)
- i) Direct Access File
  - ii) Indexed Sequential Files
- b) Sort the following elements with help of quick sort (7)
- 14, 25, 6, 10, 50, 58, 47, 75, 18, 5
- Q.7 Write an algorithm to convert infix to postfix and test your algorithm (15)
- for following expression
- $$(A + B * C) / (D - E)$$
- Q.8 a) Write an algorithm of doubly link list (INSERT AND DELETE) (8)
- b) Write Program for Sequential search and explain with example (7)

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Day & Date	Semester	Subject Name	Time	Code	Marks
Thursday 28/03/2019	IV Fresh	Introduction To Software Engineering	11.00 AM To 01.30 PM	4103	75

**Instructions:**

- I) Question No. 1 is compulsory
- II) Attempt any 4 questions from Question No.2 to Question No. 8

- 
- Q1. a) List & explain the different Software Applications [07]  
b) Define Project Planning. Explain the resources that are required to build the software [08]
- Q2. a) What is Software Configuration Management? Explain the various steps in SCM. [07]  
b) Explain RAD model with diagram [08]
- Q3. a) Define Risk. What types of risks are likely to occur as the software is built? [07]  
b) Explain any one Decomposition technique for Cost estimation with example [08]
- Q4. a) Define Quality. What are the components of cost of quality? [07]  
b) How is Failure Analysis done? [08]
- Q5. a) Explain the COCOMO model of cost estimation [07]  
b) What makes a FAST meeting different from an ordinary meeting? [08]
- Q6. a) Explain how Risk Projection is done [07]  
b) Write short notes on: [08]  
i) PERT ii) CPM
- Q7. a) Define Software Engineering. Why is it a layered technology? [07]  
b) Define Cyclomatic Complexity. How is it computed? [08]
- Q8. a) Differentiate between White Box testing & Black Box Testing methods [07]  
b) Write short notes on: i) Flowchart ii) Pseudocode [08]

Day & Date	Semester	Subject Name	Time	Code	Marks
Tuesday 26/03/2019	IV (Fresh)	Data Structures and File Organization	11.00 AM To 01.30 PM	4101	75

## Instruction:

- I) Question. 1 is compulsory
- II) Attempt any 4 from Q.2 to Q.8
- III) Figures to the right indicate full marks

- Q.1 Define the following terms (15)
- a) Collision
  - b) Link List
  - c) Dequeue
  - d) Binary Tree
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- Q.2 a) What is Hashing ? Explain Hashing Functions with example (8)
- b) Write a program for traversing of an array (7)
- Q.3 a) Explain Classification of data structure (8)
- b) Explain the following terms (7)
- i) Adjacency List
  - ii) <sup>strict</sup> Threaded Binary Tree
- 
- Q.4 a) Make expression tree and give all traversing orders for (8)
- $$(a + b) * (c + d) / e + f - (g * h)$$
- b) Write Shortest path algorithm (7)
- Q.5 a) Write a program for operations on a Stack(PUSH and POP) (8)
- b) Write an algorithm for DFS and explain with example (7)
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- Q.6 a) Explain the following (8)
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- Q.7 Write an algorithm to convert infix to postfix and test your algorithm (15)
- for following expression
- $$(A + B * C) / (D - E)$$
- Q.8 a) Write an algorithm of doubly link list (INSERT AND DELETE) (8)
- b) Write Program for Sequential search and explain with example (7)

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Day & Date	Semester	Subject Name	Time	Code	Marks
Friday 29/03/2019	IV (Fresh)	Object Oriented Programming using C++	11.00 AM To 01.30 PM	4104	75

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b) Explain function prototyping. 5  
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- Q8) a) Write a program to implement multiple inheritance 5  
b) Write a program to implement multiple constructor 5  
c) Write a program to swap 2 number using reference variable 5

40

Day & Date	Semester	Subject Name	Time	Code	Marks
Thursday 28/03/2019	IV Fresh	Introduction To Software Engineering	11.00 AM To 01.30 PM	4103	75

**Instructions:**

- I) Question No. 1 is compulsory
- II) Attempt any 4 questions from Question No.2 to Question No. 8

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- Q1. a) List & explain the different Software Applications [07]  
b) Define Project Planning. Explain the resources that are required to build the software [08]
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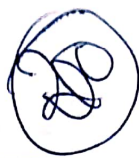
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| Q1) | Explain following terms  | 15 |
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| Q2) | a) Explain the basic concept of OOPS   | 10 |
|     | b) Explain Memory Management operator  | 5  |
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|     | b) Differentiate between call by value and call by reference                                   | 5  |
| Q4) | a) What is difference between member functions defined inside and outside the body of a class? | 5  |
|     | b) List the ten rules for Operator Overloading   | 5  |
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| Q5) | a) What is a class? Describe the syntax for declaring a class with examples                    | 5  |
|     | b) Explain function prototyping.   | 5  |
|     | c) State the characteristics the static variables and static function                          | 5  |
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|     | c) Write a program to swap 2 number using reference variable                                   | 5  |



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