



SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY :: PUTTUR
Siddharth Nagar, Narayanavanam Road – 517583

MODEL QUESTION BANK (DESCRIPTIVE)

Subject with Code : Object Oriented Programming through C++ (19MC9105)

Course : MCA

Year & Sem: I - MCA II - Sem

Regulation: R19

UNIT –I

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| 1. Describe details about Characteristics of OOPS | 12M |
| 2. Explain details about need for OOPS paradigm & Explain Features of OOPS? | 12M |
| 3. Write difference between Procedure Oriented Language & Object Oriented Language? | 12M |
| 4. Describe details about structure of C++? Explain details about types of Data Types | 12M |
| 5. What is a Operator? Explain the types of Operator with an example. | 12M |
| 6. What is Array? Explain the types of Array with an example. | 12M |
| 7. Explain details about Conditional Statement with an example. | 12M |
| 8. Describe details about. | |
| i) for, while, do - while | 8M |
| ii) continue & goto statement | 4M |
| 9. What is pointer? Explain details about types of pointer with an example. | 12M |
| 10. What is Structure & String? Explain details about Function of String with an example. | 12M |

UNIT –II

1. Explain details about C++ Function with an example. 12M
2. Describe details about Inline Function & Friend Function with an example. 12M
3. Define Constructor & Destructors? Explain the Types of Constructor with an example. 12M
4. Explain details about Class & Object with an example. 12M
5. a) What is Data abstraction with an example? 6M
b) Define Static with an example. 6M
6. Describe details about Recursive Function with an example. 12M
7. Explain details about Dynamic Memory allocation and De-allocation with an example. 12M
8. Describe details about Preprocessor directives & name spaces with an example. 12M
9. Describe details about Parameter Constructor, Copy Constructor with an example. 12M
10. Explain details about new & delete keyword with an example. 12M

UNIT –III

1. Write short notes on Polymorphism? Explain details about Types of Polymorphism with an example. 12M
2. Explain details about Operator Overloading & Types of Operator Overloading with an example. 12M
3. Give brief description about the Generic programming with an example. 12M
4. Explain details about the Function Template & Class Templates with an example. 12M
5. Explain details about Inheritance & Types of Inheritance with an example. 12M
6. Describe Details about Base class construction & Destruction with an example? 12M
7. Explain details about Virtual Base class with an example. 12M
8. Explain details about Overloading & Types of overloading with an example. 12M
9. Describe details about unary Operator Overloading & Binary Operator Overloading with an example. 12M
10. Explain details about Multiple Inheritance, Hierarchical Inheritance, and Hybrid Inheritance with an example. 12M

UNIT –IV

1. Explain details about Virtual Functions & How to adapt the virtual keyword to the function with an example. 12M
2. Describe details about Static & Dynamic Binding with an example. 12M
3. Describe details about Base and Derived class virtual function with an example. 12M
4. Explain details about Dynamic Binding through virtual function with an example. 12M
5. What is overriding? Explain details about Function Overriding with an example. 12M
6. Explain details about Virtual Function call Mechanism & Pure Virtual function with an example. 12M
7. Define Abstract class? Explain details about the implementation of Abstract class with an example? 12M
8. Explain details about of Virtual keyword using differentiate of Base class and Derived class of Member Function. 12M
9. Explain details about Early binding & Late binding with an example. 12M
10. Write short notes on Polymorphism? Explain details about Run-Time Polymorphism with an example. 12M

UNIT –V

1. Explain details about File Creation & File Operation with an example. 12M
2. Describe details about File Streams & String Streams? 12M
3. Describe details about Error Handling during File Operations with an example. 12M
4. Explain details about Formatted I/O with an example. 12M
5. Explain details overloading operators << & >> with an example. 12M
6. What is Exception Handling? Explain details about types of Exception Handling with an example. 12M
7. Explain details about Re-throwing Exception & Catch all exceptions. 12M
8. Describe details about try, throw, and catch, finally with an example. 12M
9. Explain details about Application Exception with an example. 12M
10. Describe details about Benefits of Exception Handling & Explain the user defined Exception Handling. 12M

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