



**SIDDHARTH GROUP OF INSTITUTIONS :: PUTTUR**  
Siddharth Nagar, Narayanavanam Road – 517583

**QUESTION BANK (DESCRIPTIVE)**

**Subject with Code :** Programming in Python(16CS5803)

**Course & Branch:** M.Tech. - CSE

**Year & Sem:** I-M.Tech & I-Sem

**Regulation:** R13

**UNIT –I**

**A TUTORIAL INTRODUCTION, LEXICAL CONVENTIONS AND SYNTAX**

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|--|------|
| 1. A) Discuss about FileInput and Output with an suitable example. | 5 M  |
| B) Explain about Lists in detail with an example.                  | 5 M  |
| 2. Explain in detail about Iteration and Looping concept.          | 10 M |
| 3. Discuss about the concept class with an example.                | 10 M |
| 4. Describe about   I) Functions                                   | 5 M  |
| II) Documentation Strings  | 5 M  |
| 5. Write about      I) Dictionaries                                | 5 M  |
| II) Decorators   | 5 M  |
| 6. Demonstrate about   I) Variables and Arithmetic Expressions     | 5 M  |
| II) Operators  | 5 M  |
| 7. Justify the conditionals with suitable examples.                | 10 M |
| 8. Elaborate about I) Functions                                    | 5 M  |
| II) Identifiers and Reserved Words                                 | 5 M  |
| 9. Explain Data Types in detail with necessary examples.           | 10 M |
| 10. Brief about   A) Line Structure and Indentation                | 5 M  |
| B) Exceptions  | 5 M  |

**UNIT –II**  
**TYPES AND OBJECTS**

1. A) Discuss about Object Type and Identity with a suitable example. 5 M  
B) Explain about Reference Counting with an example. 5 M
2. Explain in detail about Built in Types in detail with examples. 10 M
3. Discuss about Object creation for a class, destruction with an example. 10 M
4. Describe about I) References and Copies 5 M  
II) Documentation Strings 5 M
5. Write about I) Callable Types 5 M  
II) Callable Objects Performance Considerations 5 M
6. Demonstrate about I) Attribute Access 5 M  
II) Comparison Operations 5 M
7. Justify the concept classes and Types with suitable examples. 10 M
8. Elaborate about I) None Type 5 M  
II) Mathematical Operations 5 M
9. Explain about A) Classic classes in detail with necessary examples. 5 M  
B) Sequence Types, Mapping Types, Set Types 5 M
10. Brief about A) Modules 5 M  
B) Files 5 M

**UNIT –III**  
**OPERATORS AND EXPRESSIONS**

1. A) Discuss about Augmented Assignment with a suitable example. 5 M  
B) Explain about Type Conversion in detail with an example. 5 M
2. Explain in detail about Functions and Functional Programming concept. 10 M
3. Discuss about concept “Object Equality and Identity Order of Evaluation”. 10 M
4. Describe about I) Operations on Numbers 5 M  
II) Attribute Operator (.) 5 M
5. Write about I) Unicode Strings 5 M  
II) Operations on Sets 5 M
6. Demonstrate about I) Operations on Dictionaries. 5 M  
II) Functional Programming. 5 M
7. Justify the control flow with suitable examples. 10 M
8. Elaborate about Operations on Sequences, Dictionaries. 10 M
9. Explain Boolean Expressions and Truth Values in detail with examples. 10 M
10. Brief about A) Functions 5 M  
B) Identity Order of evaluation 5 M

**UNIT –IV****CLASSES AND OBJECT-ORIENTED PROGRAMMING**

1. A) Discuss about class statement with a suitable example. 5 M  
B) Explain about Meta classes in detail with an example. 5 M
2. Explain in detail about the concept “Modules and packages”. 10 M
3. Discuss about the concept “Types and class membership Tests”. 10 M
4. Describe about I) Input and Output 5 M  
II) Documentation Strings 5 M
5. Write about I) Packages 5 M  
II) Instance Destruction 5 M
6. Demonstrate about I) Information Hiding 5 M  
II) Operator Overloading 5 M
7. Justify the concept “Inheritance” with examples. 10 M
8. Elaborate about I) Class Instances 5 M  
II) Classic classes 5 M
9. Explain “Reference Counting and Instance Destruction” in detail. 10 M
10. Brief about A) Polymorphism 5 M  
B) Class Membership Tests 5 M

**UNIT –V**  
**THE PYTHON LIBRARY**

1. A) Discuss about Library Overview. 5 M  
B) Explain about Network Programming in detail with an example. 5 M
2. Explain in detail about the concept “Introduction to python standard Library”. 10 M
3. Discuss about the concept “Data Management and Object Persistence”. 10 M
4. Describe about I) Text Handling 5 M  
II) Mathematics 5 M
5. Write about I) Exceptions 5 M  
II) Object Persistence 5 M
6. Demonstrate about I) Built-in Functions 5 M  
II) String Handling 5 M
7. Justify the concept Data Structures and Algorithms” with examples. 10 M
8. Elaborate about I) File Handling 5 M  
II) Data Structures 5 M
9. Explain “String and Text Handling” in detail. 10 M
10. Brief about A) Python Runtime Services 5 M  
B) Threads 5 M

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