Roll No. ....

5th Sem / Comp
Subject:- Computer Programming Using Python

Time : 3Hrs.   M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory   (10x1=10)

Q.1 What is the purpose of environment variable in python?
a)   Storing data within Python programs
b)   Defining environment settings for Python programs
c)   Controlling the behavior of the Python interpreter
d)   Executing Python code from the command line

Q.2 Which method in Python is used to format strings?
a)   str ()   b)   format ()
c)   print ()   d)   input ()

Q.3 What is the purpose of the if statement in Python?
a)   To loop through a collection
b)   To define a function
c)   To perform conditional execution
d)   To print output

Q.4 Which data structure in Python uses key-value pairs?
a)   Lists   b)   Tuples
c)   Sets   d)   Dictionaries

Q.5 What are parameters in Python functions?
a)   Values returned by the function
b)   Inputs passed to the function
c)   Variables used inside the function
d)   Function names

Q.6 Which module in Python is used for mathematical operations?
a)   sys   b)   os
c)   math   d)   time

Q.7 How do you handle multiple exceptions in Python?
a)   Using a single except block
b)   Using multiple except blocks
c)   Using the try-except statements only
d)   None of the above

Q.8 Which access mode is used to open a file for reading and writing in Python?
a)   r   b)   w
c)   a   d)   r+

Q.9 In Python, what is inheritance?
a)   A way to copy data from one class to another
b)   A way to define new classes based on existing classes
c)   A way to delete classes
d)   A way to modify existing classes

Q.10 What are regular expressions used for in Python?
a)   Data serialization
b)   Pattern matching in strings
c)   Network communication
d)   File manipulation

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Name any two Python keywords.

Q.12 Python supports both single-line and multi-line comments. (True/False)

Q.13 Write logical operator in Python?

Q.14 Name two type of collection in Python.

Q.15 Python functions can only accept a fixed number of arguments. (True/False)

Q.16 What is the extensions of Python programs.

Q.17 What is a runtime error in Python?

Q.18 Python's open function is used only for writing to files. (True/False)

Q.19 Define class in Python.

Q.20 Write any one special character used in regular expressions.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Write naming conventions in python?

Q.22 How to use comments in python?

Q.23 Explain input and print function of python?

Q.24 Write syntax of while loop in python?

Q.25 Explain for loop of python with example?

Q.26 What is the purpose of the continue statement in Python?

Q.27 What is the primary difference between a tuple and a list a Python?

Q.28 What is a dictionary in Python?

Q.29 How a function can be created in Python?

Q.30 What is call by reference?

Q.31 What is a module and how it can be imported in python file?

Q.32 What access mode is used to open a file for reading and writing in Python?

Q.33 How do you create a class in Python?

Q.34 What is inheritance in object-oriented programming?

Q.35 What is greedy match in regular expressions?

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 What is a class in python, how to declare a class, in python, give suitable coding example?

Q.37 Write short notes on:
   a) relational operators of python
   b) Runtime Errors

Q.38 What is a list in Python, how to access and update a list of python?