

Total No. of Pages : 4]
B1784

Code No. BS215CA/B/2023

FACULTY OF SCIENCE

B.A./B.Com./B.Sc. II Semester (3YDC) Examination, May/June - 2023

Subject : COMPUTER APPLICATIONS

Course Code No. & Name : BS215CA - Programming with Python

Time : 3 Hours]

[Max. Marks : 80

[Min. Marks : 32

SECTION - A

[Marks : $4 \times 5 = 20$]

Instructions to the candidates:

a) Answer any four of the following questions.

b) Each question carries 5 marks.

- 1) Explain various numerical data types with examples.**
- 2) Describe various flavours of Python.**
- 3) Explain how to delete the string with del.**
- 4) Describe Creating, indexing three dimensional arrays in Python.**
- 5) Describe Creation of dictionaries in Python.**
- 6) Explain basic operations of tuples in Python.**
- 7) Describe Placing widgets on grid with example.**
- 8) Describe Polymorphism with examples.**

P.T.O.

SECTION - B

[Marks : $4 \times 10 = 40$]

Instructions to the candidates :

- a) **Answer all the following questions.**
 - b) **Each question carries 10 marks**
- 9) a) Explain various data types in Python.
OR
b) Explain for loop, infinite loop and nested loop in Python.
- 10) a) Explain String formatting with format() with suitable examples.
OR
b) Explain any five matrix operations using Numpy.
- 11) a) Explain nested list comprehensions with examples.
OR
b) Describe basic operations on Dictionaries.
- 12) a) Describe Coordinate sequences with examples.
OR
b) Explain pickling and pipes in Python with examples.

SECTION - C

[Marks : $20 \times 1 = 20$]

Instructions to the candidates :

- a) **Answer all of the following questions.**
- b) **Each question carries 1 mark.**

I. Multiple Choice Questions.

- 13) Which of the following is a Robust Programming language_____.
- a) Python
 - b) Java
 - c) C
 - d) All of the above
- 14) Which of the following Symbol is used as first character of comment in Python.
- a) #
 - b) ~
 - c) @
 - d) <<

- 15)** Loop within a loop is called ____.
- a) For
 - b) While
 - c) Nested
 - d) do-while
- 16)** _____ returns evenly spaced numbers over a specified interval.
- a) Logspace()
 - b) linspace()
 - c) Zeros()
 - d) ones()
- 17)** Which of the following is a string format Symbol of floating Point number.
- a) % f
 - b) % x
 - c) % d
 - d) % 0
- 18)** The variable which are declared and used in a function or a block is called ____ variable.
- a) functional
 - b) global
 - c) local
 - d) loop
- 19)** Lists whose elements are again lists is called ____.
- a) tuples
 - b) list cloning
 - c) arrays
 - d) nested lists
- 20)** _____ returns name of the file.
- a) file.closed
 - b) file.mode
 - c) file.name
 - d) file.open

21) Copying one dictionary to another is called _____.

- a) joining
- b) cloning
- c) merging
- d) removing

22) Which of the following is a warehouse of tables, uses, sql etc.

- a) Database
- b) Excel
- c) Power BI
- d) File

II. Match the following:

A

B

- | | |
|---------------|---|
| 23) def | a) keyword in Python to define a function |
| 24) < = | b) Arithmetic operator |
| 25) ! | c) Assignment operator |
| 26) = = | d) Relational operator |
| 27) file.name | e) Logical operator |
| | f) Returns file name |

III. Fill in the blanks.

- 28) Full Form of MRO _____.
- 29) _____ is a condition in the control statement.
- 30) _____ is a octal notation where n is in the range 0.7.
- 31) _____ is a creating and Processing Lists Concisely.
- 32) Collection of characters is called _____.

