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Reg. No. :

Code No. : 8378

Sub. Code : WCAM 13/
VCAC 12

M.C.A. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2024

First Semester

Computer Application – Core

ADVANCED PYTHON PROGRAMMING/
PYTHON PROGRAMMING

(For those who joined in July 2023 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (15 × 1 = 15 marks)

Answer ALL questions.

Choose the correct answer :

1. In python programming, which of the following symbol is used for writing comments?

(a) // (b) /
(c) \$ (d) #

2. What will be the value of the following expression $4+3\%5$?

(a) 7 (b) 2
(c) 4 (d) 1

3. Which of these is not a core data type?

(a) list (b) tuple
(c) dictionary (d) class

4. What is the extension of the Python file?

(a) .pl (b) .py
(c) .python (d) .p

5. What the del statement can delete from the list?

(a) single element
(b) multiple elements
(c) all elements
(d) all of the above

6. List can have elements of _____ data types.

(a) same (b) different
(c) both (d) none

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7. How to create a window?
- (a) window newWindow()
 - (b) window = Window()
 - (c) window = Frame()
 - (d) window = Tk()
8. To create a label under parent window, use _____
- (a) label = Label(text = "Welcome to Python")
 - (b) label = Label(window, text = "Welcome to Python")
 - (c) label = Label(text = "Welcome to Python", fg = "red")
 - (d) label = Label(text = "Welcome to Python", fg = "red", bg = "white")
9. Using a grid manager, which option _____ to place a component in multiple rows and columns.
- (a) row
 - (b) column
 - (c) rowspan
 - (d) colspan
10. What does NumPy stand for?
- (a) Numerical Python
 - (b) Natural Python
 - (c) Numeric Program
 - (d) Nonlinear Python

11. Matplotlib is designed to be as usable as
- (a) SciPy
 - (b) MATLAB
 - (c) AI
 - (d) All of the above
12. Which function of pyplot is used to display all figures?
- (a) show()
 - (b) display()
 - (c) figure()
 - (d) data()
13. What is Django used for?
- (a) ML
 - (b) Game development
 - (c) Web development
 - (d) Data analysis
14. Default database in Django is
- (a) Oracle
 - (b) SQLite
 - (c) PostgreSQL
 - (d) MySQL
15. In Django, data is created in
- (a) tables
 - (b) views
 - (c) Templates
 - (d) objects

PART B — (5 × 4 = 20 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

16. (a) Write the comments in python with example.
- Or
- (b) Write while loop with example.



17. (a) Explain how to access characters and substrings in strings.

Or

- (b) What are higher order functions? Discuss with example.
18. (a) How to build a new data structure? Give example.

Or

- (b) Write the window components.
19. (a) What is pyplot? Write in detail.

Or

- (b) Write short notes on data frame.
20. (a) How to create project in Django?

Or

- (b) Discuss about working with Managers in python.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

21. (a) Explain the fundamental ideas of computer science.

Or

- (b) Explain for loop with example.

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22. (a) Explain list in detail.

Or

- (b) Explain design with recursive functions.
23. (a) Briefly explain structuring classes with inheritance.

Or

- (b) Write in detail about command buttons.
24. (a) Explain Matplotlib architecture.

Or

- (b) How to add elements to the chart? Explain it.
25. (a) Explain creating an administration site for models.

Or

- (b) How to install Django? Explain in detail.

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