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Reg. No. : .....

Code No. : 7886

Sub. Code : WCSM 13/  
VLSC 13

M.Sc. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2024.

First Semester

Computer Science — Core

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. To change other Python data types to an integer, use the \_\_\_\_\_ function.
- (a) int()                      (b) integer()  
(c) in()                      (d) init()

2. A list is made from zero or more elements, separated by \_\_\_\_\_ and surrounded by square brackets.
- (a) colon                      (b) semicolon  
(c) dot                      (d) commas
3. A \_\_\_\_\_ is like a dictionary with its values thrown away, leaving only the keys.
- (a) list                      (b) tuples  
(c) dictionary                      (d) set
4. The \_\_\_\_\_ function returns a stream of numbers within a specified range.
- (a) range()                      (b) limit()  
(c) end()                      (d) upto()
5. A \_\_\_\_\_ is a function that takes one function as input and returns another function.
- (a) generator                      (b) iterate  
(c) decorator                      (d) function
6. How many asterisk used to group keyword arguments into a dictionary?
- (a) 3                      (b) 2  
(c) 1                      (d) 4





7. \_\_\_\_\_ is the name of another python file, without the .py extension.

- (a) class (b) object  
(c) package (d) module

8. A \_\_\_\_\_ method affects the class as a whole.

- (a) instance (b) class  
(c) static (d) public

9. Which keyword is used to access the instance variables and methods from within the class definition?

- (a) this (b) self  
(c) me (d) instance

10. The basic unit of computer storage is the byte, which can store \_\_\_\_\_ unique values in its eight bits.

- (a) 255 (b) 254  
(c) 260 (d) 256

11. A \_\_\_\_\_ is a sequence of bytes, stored in some filesystem, and accessed by a filename.

- (a) variable (b) value  
(c) attributes (d) file

12. The \_\_\_\_\_ function returns your current offset from the beginning of the file, in bytes.

- (a) seekg() (b) seekp()  
(c) tell() (d) read()

13. A \_\_\_\_\_ is shorthand for the current directory.

- (a) two dots(..) (b) three dots(...)  
(c) four dots(....) (d) single dot(.)

14. When you run an individual program, your operating system creates a single \_\_\_\_\_

- (a) program (b) thread  
(c) action (d) process

15. A rival named \_\_\_\_\_ was designed to run 10 to 100 times faster than Hadoop.

- (a) cloud (b) disco  
(c) spark (d) dask

PART B — (5 × 4 = 20 marks)

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

Each answer should not exceed 250 words.

16. (a) Construct to create a dictionary using function. How to add or change an item by using key given an example?

Or

(b) Describe combination of set values and set intersection operators used in python.

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17. (a) Write a python program to find those numbers which are divisible by 7 and multiples of 5, between 1500 and 2700 (both included).

Or

- (b) Determine the simple while loop mechanism in python given an example.
18. (a) Define command line argument. How to parsing the command line arguments given an example?

Or

- (b) Illustrate duck typing in python with an example.
19. (a) Write short notes on python3 Unicode string.

Or

- (b) Explain how web services and automation used in python?
20. (a) Illustrate the file operation used in python.

Or

- (b) Summarize the working with big cloud vendors in detail.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)  
Each answer should not exceed 600 words.

21. (a) Explain how to formatting the string in python? Give an example.

Or

- (b) Write a python program to iterate over dictionaries using for loops.

22. (a) Illustrate about iterate with for and in using python.

Or

- (b) Explain how to define a functions and pass the arguments inside the function give an example.

23. (a) Develop a simple object using python with suitable example.

Or

- (b) Illustrate the method types that part of class and object creation.



24. (a) Determine text string regular expression with an example.

Or

- (b) Organize to construct simplest python web server and web server gateway interface (WSGI).

25. (a) Explain how to read and write the data and time of python.

Or

- (b) Summarize the concurrency used in official python websites and in the standard library.
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