(6 pages) Reg. No.:	3. ———— is a method of solving a problem through a smaller version of the same problem
Code No.: 5376 Sub. Code: ZMAE 23	(a) iteration (b) brute force
	(c) recursion (d) base case
M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2023.	4. Puzzler such as cross words and sudoku are good
Second Semester	examples of —
Mathematics	(a) back tracking
Elective — PYTHON PROGRAMMING - THEORY	(b) flow chart
(For those who joined in July 2021 onwards)	(c) selection
Time: Three hours Maximum: 75 marks	(d) sequence
PART A — $(10 \times 1 = 10 \text{ marks})$	5. Python was designed by ———
Answer ALL questions.	(a) Charles Babbage
Choose the correct answer:	(b) Guido Van Rossum
1. All the instructions are executed one after another	(c) Russel
is called ———	(d) None
(a) sequence (b) series	6. A ———— is one of the basic things a
(c) selection (d) iteration	program works with, like a letter or a number.
2. ———— lines are used to connect symbols.	(a) value (b) script
(a) terminal (b) flow	(c) inline (d) interpreter
(c) decision (d) input	(c) infine (d) interpreter
	Page 2 Code No : 5376

The () e		module co	ontains like sqrt (), g
(a)	math		
(b)	string		
(c)	print		
(d)	import		
Fun	ctions that		results are call
(a)	math	(b)	output
	C '.C 1	(4)	
(c)	fruitful	(u)	return
The	characters	of a strir	
The (a)	characters to —	of a strir	ng are indexed fro
The (a) (c)	characters to $-\infty$, ∞ 0, $n-1$	of a strir (b) (d)	ng are indexed from 0, n 1-n
The (a) (c)	characters to $-\infty$, ∞ 0, $n-1$	of a strin (b) (d) a string ca	ng are indexed fro - 0, n
The (a) (c)	characters to $-\infty$, ∞ 0, $n-1$ characters of	of a strin (b) (d) a string ca (b)	ng are indexed from 0, n 1 – n n be traversed using

PART B —
$$(5 \times 5 = 25 \text{ marks})$$

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

11. (a) Write the algorithm to print "Good morning".

Or

- (b) State the rules for drawing a flowchart.
- 12. (a) Draw the flow-chart for finding greatest of the two numbers.

Or

- (b) Write down Euclid's method of finding ECD of two numbers.
- 13. (a) Differentiate interpreter and compiler.

Or

- (b) Discuss about values in python programming.
- 14. (a) Write about parameters and arguments.

Or

- (b) Discuss about modules in python.
- 15. (a) What do you mean by concatenation?

Or

b) Write about string slices.

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[P.T.O.]

PART C — $(5 \times 8 = 40 \text{ marks})$

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

16. (a) Discuss about high level languages.

Or

- (b) Write about common keywords used in pseudocode.
- 17. (a) State the differences between recursion and iteration.

Or

- (b) Write the algorithm to find the greatest of two numbers with flowchart.
- 18. (a) Discuss about any five data types.

Or

- (b) Write about any five operators.
- 19. (a) Explain in detail about two basic types of functions.

Or

(b) Discuss about conditional statements in python.

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20. (a) Give the descriptions and types of method.

Or

(b) Write about tuples.

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