SREENIVASA INSTITUTE OF TECHNOLOGY AND MANAGEMENT STUDIES (AUTONOMOUS), CHITTOOR

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

PYTHON QUESTION BANK

(2 MARKS QUESTIONS)

UNIT-I

Short answers

- 1. Mention the various features of Python
- 2. List out some of the applications of python
- 3. Define computer science.
- 4. What is meant by representation and algorithm.
- 5. Identify and list the limits of computational problem solving.
- 6. Define Computer algorithm.
- 7. What is Computer hardware. Mention its parts
- 8. List out the Computer software.
- 9. Differentiate Syntax and Semantic errors with example
- 10. Define program debugging.
- 11. Give the working functions of compiler and Interpreter
- 12. Mention the various phases of computational problem solving
- 13. Define and expand IDLE.
- 14. Discuss about python standard library.
- 15. What are the input and output functions used in python, Specify some examples.
- 16. Write a simple python script for performing the arithmetic operations.
- 17. Calculate the simple interest using python program
- 18. Write a python script to convert temperature from Fahrenheit to Celsius
- 19. Define variable. Give the syntax and example using python
- 20. Compare C and python programming language.

<u>UNIT-II</u>

Short answers

- 1. Define Literals. List its types
- 2. What is numeric literal. Mention its limits of representation
- 3. Discuss about arithmetic overflow and arithmetic underflow with examples
- 4. Describe the limitations in the representation of floating-point values
- 5. Explain the difference between static and dynamic typing
- 6. Define string literal with example
- 7. Give the operations of ord() and chr() with example
- 8. Write any five control characters used in python
- 9. Give the syntax for various string format functions
- 10. Classify the line joining methods with example
- 11. Define an identifier with an example
- 12. Mention any five keywords used in python with syntax
- 13. Discuss about operator precedence and associativity with example
- 14. List out the types of data type with example
- 15. Explain mixed-type expression with an example
- 16. Differentiate coercion and Type conversion
- 17. Write a python script for temperature conversion
- 18. Define a variable and explain about variable assignment
- 19. Write about the built-in format function with an example
- 20. Write a python script to perform the various arithmetic operations

<u>UNIT-III</u>

- 1. Define control structure.
- 2. Write syntax for different selection control statements in python.
- 3. Write syntax for different Iterative control statements in python.
- 4. Differentiate Definite Vs Infinite loops.
- 5. Define Indentation in python.
- 6. What is operator precedence.
- 7. What is operator associativity.
- 8. List out different Relational operators in python.
- 9. List out different Relational operators in python.
- 10. List out different Boolean operators in python.
- 11. Explain Membership operators in python.
- 12. Define expression with example.
- 13. Explain Short-Circuit Evaluation with example.
- 14. List out some Logically Equivalent Boolean Expression in python.
- 15. Write statement for Infinite Error Checking in python.
- 16. Write python code for Infinite loop.
- 17. Write python code to determine given number is even or odd.
- 18. Write python code to display major or minor by reading age of a person.
- 19. Write python code using arithmetic operators.
- 20. Write pythn code to determine largest of given three numbers.

<u>UNIT-4</u>

Two marks Questions

- 1. What is a list?
- 2. What is a tuple?
- 3. What is sequence?
- 4. Define immutable and mutable.
- 5. What is dictionary?
- 6. What is a set?
- 7. Difference between tuple and list.
- 8. Define linear data structure.
- 9. What is traversal?
- 10. How an empty list is created?
- 11. How an empty tuple is created?
- 12. Write the syntax for slice operation in the list.
- 13. Why '+' is called as overload operator?
- 14. Write for loop syntax.
- 15. Define range function.
- 16. How to access list index and list value?
- 17. List out the operations performed on list.
- 18. List out the operations performed on tuple.
- 19. List out the operations performed on dictionary.
- 20. List out the operators performed on set.

UNIT-5

1. What do you meant by function?

2. How will you define a function. with an example.

3.List out the types of formal arguments in python.

4.Differentiate Default arguments and Keyword arguments.

5. What do you meant by variable length arguments.

6. What do you meant by anonymous function.

7. Differentiate between global vs local variables.

8.Define file?

- 9. How to opening and closing a file .with an example.
- 10. What are the different modes of operations in file?
- 11. How to use read and write a file ?with an example.
- 12. What do you meant by Class and Object.
- 13.Explain the purpose of Turtle graphics.
- 14. How will you create Multiple Turtle graphics Window with an example.
- 15.What is meant by variable scope.
- 16. How will you create Turtle graphics Window with an example.
- 17. Differentiate Value Returning Functions and Non Value Returning Functions.
- 18. Write syntax for reading and writing a file.
- 19. Differentiate Calling function and Called function.
- 20. Write syntax for Turtle graphics Window.

PYTHON QUESTION BANK

(10 MARKS QUESTIONS)

<u>UNIT-I</u>

1. Explain in detail about computer hardware and soft ware

2. Explain about ComputerAlgorithm.Write the algorithm to determine the given year is leap year or not

3. Write the algorithm to determine the day of the week for a given month, day and year

4. Write the algorithm to determine the day of the week for a given month, day and year

5. Define Computational problem solving? List and Explain the various steps involved in computational problem solving

6. Explain about the drake's equation and write the python script for calculating the drake equation

7. Discuss about how to use Python IDLE. Write a simple Python program that displays the following powers of 2, one per line: 2^1 , 2^2 , 2^3 , 2^4 , 2^5 , 2^6 , 2^7 , 2^8 .

8. a)Write a Python program that allows the user to enter any integer base and integer exponent, and displays the value of the base raised to that exponent. Your program should function as shown below.

What base? 10 What power of 10 ? 4 10 to the power of 4 is 10000

b)Write a Python program that allows the user to enter a four-digit binary number and displays its value inbase 10. *Each binary digit should be entered one per line, starting with the leftmost digit*, as shown below.

Enter leftmost digit: 1 Enter the next digit: 0 Enter the next digit: 0 Enter the next digit: 1 The value is 9

9. a)Write an algorithm to find the reverse of given number

b)Write an algorithm that finds the given number is Armstrong or not.

10.What do you mean by Software Development Method? Explain how to apply Software Development Method

<u>UNIT-II</u>

- 1. What is an operator? Discuss about the arithmetic operators in python with suitable examples for each.
- 2. Discuss Operator precedence and Operator Associativity. Illustrate it with suitable examples.
- 3. Write a Python script for restaurant tab calculations.
- 4. Write a Python script for finding Age in seconds.
- 5. a)What is a Literal? Explain about Numeric and String Literals.b) Explain about format() function with examples
- 6. a)Discuss about limits of Range and Precision in Floating-Point Representation with Examples
 - b) Discuss about Arithmetic overflow and under flow
- 7.a. How the strings are represented in Python? What is the use of *ord()* function
 - b. Explain about the implicit and explicit line joining using Python with the help of a programfor each
- 8.Explain about variables, identifiers and keywords with suitable example python scripts.
- 9.Write a Python program that requests from the user a temperature in degrees Fahrenheit, and displays the equivalent temperature in degrees Celsius
- 10.a) Write a Python program that prompts the user for two floating-point values and displays the result of thefi rst number divided by the second, with exactly six decimal places displayed in scientifi c notation.
- b)Write a Python program that prompts the user to enter an upper or lower case letter and displays the corresponding Unicode encoding.

UNIT-III

- 1. a)What is a control structure? Write about fundamental forms of control in programming?b)List various relational operators in python and explain with appropriate examples?
- 2. a) Explain about membership operators with suitable examples?
 - b) What are the Boolean values in python, List the Boolean operators, write its precedence and the truth tables.
- 3. Give a logically equivalent expression for each of the following.
 - (a) num != 25 or num := 0
 - (b) 1 <= 5 num and num<= 50
 - (c) notnum> 100 and not num< 0
 - (d) (num<0 or num> 100)
- 4. Write in detail aboutselection control statement in python.
- 5. Develop a python program to find the numbers of days in month.
- 6. Explain the while statement in Python. Write a program that sums a series of (positive) integers entered by theuser, excluding all numbers that are greater than 100.
- 7. Discuss the significance of indentation in Python. Show some valid and invalid indentation withrespect to compound statements.
- 8. Develop a python program for temperature conversion (Celsius to Fahrenheit / Fahrenheit to Celsius) to Demonstrate the process of Input error checking.
- 9. Differentiate the following with examples
 - a) Finite vs Infinite loops
 - b) Definite vs Indefinite loops
- 10. What are Boolean flags? Explain about the use Boolean flags in indefinite loops with sample program
- 11.Develop a python program to print the calendar of a month by taking starting day and no of days of a month as input.

UNIT -IV

- 1. What is a List? Explain some common list operations in Python
- 2. a) Differentiate python Lists and Tuples with examples.b) Write about nested Lists
- 3. Explain about Sequences and its operations in python.
- 4. a) How to iterate over Lists in python using for Loop. Illustrate it with example code. b)Explain about the range() function in python with examples.
- 5. a) Differentiate iterating over list elements and list index values b)How to use while loops with Lists? Illustrate it with sample code.
- 6. Develop a password encryption/decryption program using list in Python
- 7. a)What is a dictionary? Explain its operations with example?b)Write a program which stores the average temperature recorded in a day of the week and display the average temperature of given day.
- 8. Write about Set Data type and its operations with examples.
- 9. Develop a python program to generate all possible spellings of the last four digits of any given phone number –use dictionaries.
- 10. a). Discuss the different options to traverse a List.b) Write about list Comprehension

UNIT -V

- 1. a).Explain the concept of a program routine.
 - **b**). Write a program to swap two numbers using a user defined function.
- 2. How to define Functions in python?Discus about a value returning function and non value returning function with examples.
- 3. Develop a program to convert a range of temperatures from Fahrenheit to Celsius and vice-versa using functions.
- 4. Write short notes on
- a). Actual vs. Formal arguments

b).Mutable vs. Immutable Arguments

- 5. a). Explain about keyword arguments in python with example.
- b) Explain about default arguments in python with example.
- 6. Discus about Variable Scope with example programs.
- 7. What are the steps used for creating a Turtle graphics window.
- 8. What is an Object? Write about object references.
- 9. Explain about fundamental turtle attributes.
- 10. Explain about following turtle attriutes
- a).Turtle visibility
 - b) Turtle Size
 - c) Turtle Shape
 - d) Turtle Speed.
- 11. Discuss about opening, reading and writing Text files with example.
- 12. Discuss about string processing in python.

PYTHON QUESTION BANK

(MCQ - MULTIPLE CHOICE QUESTIONS)

<u>UNIT-I</u>

 Which of the follow a) database man 	ing are areas of study nagement b) compute	-		[D 11]
2) The computer hardware	• •	• •	-		es are
called a)RAM		-			
[B]	0) 11010101010	•) =====	emps u) e		
3) Trying all possible solution	ons to a given proble	m is referred to as	sa an	proach.[B 1
a) Bit	b) Brute force	c) Byte	d) W		- 1
4) is a finite numbe	·	, 5	<i>,</i>		ved to
produce a desired result for	•	1	systematical	iy ionov	wed to
[B]	given input in a minu	c amount of time.			
	b) Algorithm	c) Debugger	d) E	ditor	
5) Moore's Law states that	, 0		,		ailiaan
				-	oubles
chip	A0#0				
roughly every ye		a) 2 and half	d) 2	[C]
a) 1 () The summarian $27/2$ (b) 2 * 1 + 2	c) 2 and half	u) 5	IC	1
6) The expression $27/3 - 4$			1) 2	[C]
a) 8	b) 16	c) 7	d) 32		1
7)is a softwar				[D]
	b) Language	c) Debugger	d) ()	perating	
System				_	
8) The set of program inst		related data and o	documentatio		
executed by computer is cal				[B]
a) Memory	,	c) Hardware	,		
9) The set of characters and	d the acceptable sequ	ences of those ch	aracters are		
of a language.				[A]
· •	b) Semantic c) D		-		
10) A program that translate	es programs directly i	nto machine code	to be execut	ed by the	e CPU
is called					
[D]					
a) Editor	b) Translator c) D	Debugger	d) Compiler	•	
11) The process of finding a	-		gram is calle	d[C]
a) Editor	b) Translator c) D	Debugger	d) all		
12) Which of the following	is not example for co	mputer hardware	parts?	[C]
a) Keyboard	b) Mouse c) C	DS	d) Printer		
13) If the hardware gives in	correct results, then a	ny program run o	n that hardwa	are is	[B]
a) reliable	b) unreliable c) T	rustable	d) acceptabl	e	
14) All information within a	a computer system is	represented by the	e use of only	two digi	ts, 0
and 1,			-	-	
called represe	entation			[B]
a) decimal	b) binary c) h	exa decimal	d) octal	-	-
15) Group of eight bits are c	•		*	[A]
a) byte		vord	d) tera	L -	
,,			-,		

16) Which of the fol	llowing is example for f	lash memory.		[D]
a) CD	b) DVD	c) hard disk	d) pen drive		
17) The of a	a language is the meaning	ng associated with each	n syntactically o	correct	
sequence of					
characters				[B]
a) syntax	b) semantics	c) translator	d) debugger		
18) Pictorial represe	entation of steps to solve	e a given problem is ca	lled	[A]
a)Flow Char	t b) Algorithm	c) Debugger	d) Edi	itor	
19) Writing an algor	rithm for a given proble	m is comes under	_ software deve	elopme	nt
step.					
a) Design	b) Testing	c) Implementation	d) Maintenan	ce [A]
20) Writing program	n for a given problem is	comes under _ softwa	re developmen	t step.	[C]
a) Design	b) Testing	c) Implement	ation d) Ma	intenar	nce

<u>UNIT-II</u>

/	ator of the Python pro	gramming language, fir	st released in the	early
1990s.			[B]
a) Dennis Ritch	ie b) Guido van Ros	ssum c) Al-Khwarizmi	d) al-jabr	
2) Python IDLE typ	ically includes		[D]
a)Editor	b)Translator	c) Debugger	d) all	
3) In Python, fun	ction is used to reques	t and get information fro	om the user.[B]
a) print b)	input c)	format d) o	ord	
4) Output of the given p	than shell >>>format	23102.25 ' 2f') is	[B]
a) 23.25			[B d)23.102,25]
a) 23.23	0)23,103.23	C) 23,102.23	u)25.102,25	
5) The default encoding	in Python uses		[C]
a) ASCII	b) unicode	c) UTF-8	d) All	
() What is the value of V	$V:\mathbf{f}\mathbf{V}=20/5$		ΓA	1
6) What is the value of X	b) 5	a) 1	[A d) 3]
a) 2	0) 5	c) 1	u) 5	
7) The combination of op	perators and operands t	hat evaluated to a single	e value is called [A	A]
. –				-
a) Expression	b) static	c) Dynamic	d) variable	-
		· •	,	
8) When operators are		· •	aluation then we	shall
8) When operators are consider operator	having the same leve	l of precedence for eva	aluation then we [C	
8) When operators are	having the same leve	l of precedence for eva	aluation then we [C	shall
8) When operators are consider operator	having the same leve b) Precedence	l of precedence for eva c) Associatively	aluation then we [C	shall
8) When operators are consider operatora) Priority	having the same leve b) Precedence	l of precedence for eva c) Associatively	aluation then we [C d) All	shall]
 8) When operators are consider operator a) Priority 9) An expression with operator a) implicit 	having the same level b) Precedence berands of different typ b) explicit	l of precedence for eva c) Associatively be is called c) mixed	aluation then we [C d) All [C d) all	shall]]
 8) When operators are consider operator a) Priority 9) An expression with operator a) implicit 10) conversion of an expression of an expr	having the same level b) Precedence berands of different typ b) explicit of operands can be appl	l of precedence for eva c) Associatively e is called c) mixed ied even if loss of inform	aluation then we [C d) All [C d) all mation results.[B	shall]]
 8) When operators are consider operator a) Priority 9) An expression with operator a) implicit 10) conversion of an expression of an expr	having the same level b) Precedence berands of different typ b) explicit	l of precedence for eva c) Associatively e is called c) mixed ied even if loss of inform	aluation then we [C d) All [C d) all	shall]]
 8) When operators are consider operator a) Priority 9) An expression with operator a) implicit 10) conversion of an expression of an expr	having the same level b) Precedence berands of different typ b) explicit of operands can be appl b) explicit	l of precedence for eva c) Associatively e is called c) mixed ied even if loss of inform c) mixed	aluation then we [C d) All [C d) all mation results.[B	shall]]
 8) When operators are consider operator a) Priority 9) An expression with operator a) implicit 10) conversion operator operator a) implicit 	having the same level b) Precedence berands of different typ b) explicit of operands can be appl b) explicit	l of precedence for eva c) Associatively e is called c) mixed ied even if loss of inform c) mixed	aluation then we [C d) All [C d) all mation results.[B d) all	shall]]
 8) When operators are consider operator a) Priority 9) An expression with op a) implicit 10) conversion of a) implicit 11) A is a sequence 	having the same level b) Precedence berands of different typ b) explicit of operands can be appl b) explicit ce of one or more chara b) keyword	l of precedence for eva c) Associatively e is called c) mixed ied even if loss of inform c) mixed acters. c) data type	aluation then we [C d) All [C d) all mation results.[B d) all [D d) literal	shall]]

13) Range of the float numb	ers in python is	_	[A]
a) 10^{-308} to 10^{308}	b) 10^{-208} to 10^{208}	c) 10^{-108} to 10^{108}	d) 10^{-408} to 1	0^{408}
14) Division of two float nu	mbers may result in ari	thmetic	[B]
a) overflow	b) underflow	c) error	d) all	
15) encoding scheme i	s intended to be a univ	ersal encoding scheme.	[B]
a) ASCII	b) unicode	c) UTF-8	d) All	
16) function in python	converts ASCII codes	into corresponding cha	racters. [A]
a) chr()	b) ord()	c) ascii()	d) utf()	
17) Program lines in python	may be explicitly join	ed by use of the	symbol [C]
a) -	b) /	c) \	d) _	
18) function in python	used to get address of	a variable.	[D]
a) chr()	b) ord()	c) address()	d) id()	
19) Set of values, and a set of	of operators that may b	e applied to those value	es is called _[A	\]
a) data type	b) keyword	c) literal	d) function	
20) Which of the following	is not a built in data ty	pe in python	[C]
a) int	b) float	c) double	d) string	

<u>UNIT-III</u>

 Control flow is the order that instructions are executed in a program.(True/False) A is a statement that determines the control flow of a set of instructions.]]
 a) Control Statement b) Control Structure c) Control line d)b&c 3) A is a set of instructions and the control statements controlling their execution 	on.[B	1
a) Control Statement b) Control Structure c) Control line d)b&c	L	-
4) There are fundamental forms of control in programming.	[C]
a) 1 b) 2 c) 3 d) 4	F .	
5) is not a fundamental form of control in programming.	[A]
a) Primitive b) Sequential c) Selection d) Iterative	ГА	1
6) A program consisting of only sequential control is referred to as a	[A	1
a) Straight-line program b) Batch Program c) Inline Function		
7) Sequential Control is provided by a control statement that executes instructi	ons.[A]
a) Sequentially b) Selectively c) Iteratively d) None		-
8) Selection control is provided by a control statement that executes instruction	ıs.[B]
a) Sequentially b) Selectively c) Iteratively d) None		
9) Iterative control is provided by a control statement that executes instruction	ns.[C]
a) Sequentially b) Selectively c) Iteratively d) None		
10) The Boolean data type contains Boolean values.	[B]
a) 1 b) 2 c) 3 d) 4		
$11 = is a \underline{\qquad} operator.$	[A]
a) Relational b) Arithmetic c) Boolean d) None		
12) 'in' is a operator.	[D]
a) Relational b) Arithmetic c) Boolean d) Membership		
13) Boolean Operator's are also known as Operator's.	[D]
a) Relational b) Arithmetic c) Boolean d) Logical		
14) 'not' is a operator.	[C]
a) Relational b) Arithmetic c) Boolean d) None		
15) 'x <y' equivalent="" is="" logically="" td="" to<=""><td>[A</td><td>]</td></y'>	[A]
a) $not(x \ge y)$ b) $not(x < y)$ c) $not(x <= y)$ d) $not(x = y)$		
16) 'if statement' is a control statement.	[A	1
a) Selection b) Sequential c)Iterative d)None	-	-
, , , , , , , , , , , , , , , , , , ,		

		control state		[C]
		Sequential c)Iterative	d)None		
		loop, once the conditio ive control structure th			1
-	-	am loop in which the r	,	, <u> </u>	-
		p is executed. (True /F		[1
		I v	,	L	-
		UNIT-IV			
1)) A list is a non line	ear data structure.(True	(False)	ſ	1
		ble data structure.(True		-]	1
,		ngth data structure.(Tru	· · · · · · · · · · · · · · · · · · ·	[]
		st have orde		[A]
,		1	c) Semi-Linear	d) None	-
5)) Lists have		,	[A]
,		b) One-based	c) Two-based	d) None	-
6)	,	x values as	,	[B	1
,		b) 0n-1		d) 1n-1	-
7)		of a list	,	,	
		ted by		[C]
- /	a) { }	•	c) []	d)<>	1
9)		nen A[5]=		[D]
- /	a) 5	b) 8	c) 3	d) None	1
1(,	nen A[0]+A[2]+A[4]= $\frac{1}{2}$		[A	1
	a)12	b) 13	d) 14	d) 15	1
1		,'ECE','EEE','CIVIL'	,		
	SITAMS[4]='		, ,]		
	print SITAMS				
	1	t of the above program	?	[C	1
	-	EEE','CIVIL','IT','EIE'		[0	L
b)		E','CIVIL','IT','MECH',			
	-	e','CIVIL', 'MECH','IT'	-		
	=	E','CIVIL', 'MECH','EII	=		
12	2) fruit=['banana','m	nango','apple']			
	fruit.append('cher	ry')			
	What is the Outpu	t of the above program	?		
	a) b) c) d)				
13	3) A tuple is a non li	near data structure.(Tru	ıe/False)	[]
14	4) A tuple is a immu	table data structure.(Tr	ue/False)]]
15	5) A tuple is a fixed	length data structure.(T	rue/False)]]
	-	ple have or		-]	1
	a) Linear	b) Non-Linear		d) None	-
11	<i>'</i>	noted by]	1
_	b) { }	b) ()	 c) []	d)<>	L
18	8) If s='python' then		·/ LJ]	1
1	a) ython	b) python	c) thon	d) hon	T
10	· •	Strings come under	,		1
1,	a) Functions	b) Programs	c) Sequences	d) None	T
		U/ I IUGIUIIIU			

\ 1 •	1.	st1 to list2 then we use]
a) lis	t2=list1	b) list2=list(list1)	c) list1=list2	d) list1=list(l	1st2)
		UNI	<u> </u>		
1) A dict	ionary is a			[]
a) Li		b) Associative	c) Semi-Linear	d) None	
2) A dict	ionary has	pairs.		[]
a) Ke	ey, Value	b) Key, Key	c) Value, Value	d) None	
3) When	cmp() method	l is used to compare tv	vo dictionaries (dict1 a	and dict2), and i	f
dict1>	dict2 then cmp	() method returns			
	[]				
a) 0		b) 1	c) -1	d) -2	_
,	1	cate values.(True/Fals	,	[]
		· · · ·]
		b) set([1, 2, 2, 4, 5])			
		a named group of instr]
/	on	, U	c) Instruction	d) None	
	led. (True/Fals	ninates, execution auto	matically returns to tr	re point from w	nich 1
	`	iction definition is the		L []
,		b) Function Footer		d) None	-
	n header starts	with the keyword]]
a) fun	· · · · · · · · · · · · · · · · · · ·	b) def	c) func	d) None	••
(True/Fals		lowed by a comma-se	parated list of identifie	ers parameters.]
,	,	able that is only access	sible from	. []
		on. b) outside the fu			-
		riable that is defined o	utside of any function	definition.	
(True/Fals	se)				
	[]			_	
		d in modes.	5 <i>4</i>	[]
a) 1	b) 2	c) 3	d) 4		
a) 1 14) To deallo	b) 2 cate a memory	c) 3 location means to cha	,		
a) 1 14) To deallo "available	b) 2	c) 3 location means to cha	,		
a) 1 14) To deallo "available [b) 2 cate a memory for reuse." (Tr]	c) 3 location means to cha	inge its status from "cr	urrently in use"	to
a) 1 14) To deallo "available [15) Garb	b) 2 cate a memory for reuse." (Tr] age collection	c) 3 location means to cha rue/False)	inge its status from "control of the status from the status fr	urrently in use" hich locations in	to
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