

HIGHER SECONDARY SECOND YEAR COMPUTER SCIENCE

1 MARK QUESTION WITHOUT ANSWER

2024 - 25



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1. FUNCTION

Choose the best answer: (1 Mark)	
1. The small sections of code that are used to	perform a particular task is called

	(A) Subroutines	(B) Files		(C) Pseudo code	(D) Modules
2.	Which of the follo	wing is a uni	t of co	ode that is often de	fined within a greater code
	structure?				
	(A) Subroutines	(B) Function	(C) F	iles (D) N	Modules
3.	Which of the follow	wing is a dist	inct sy	ntactic block?	
	(A) Subroutines	(B) Function	ì	(C) Definition	(D) Modules
4.	The variables in a	function defin	nition	are called as	
	(A) Subroutines	(B) Function	ì	(C) Definition	(D) Parameters
5.	The values which a	are passed to	a func	tion definition are	called
	(A) Arguments	(B) Subrouti	nes	(C) Function	(D) Definition
6.	Which of the follo	wing are mar	ndator	y to write the type	annotations in the function
	definition?				
	(A) { }	(B) ()		(C) []	(D) <>
7.	Which of the follo	wing defines	what a	an object can do?	
	(A) Operating Syst	tem	(B) C	ompiler	
	* *	(D) In	-		
8.	Which of the follo	_			ed in the interface?
	(A) Operating Syst			ompiler	
	(C) Implementation		, ,	-	
9.		ich will give	exact	result when same	arguments are passed are
	called				
	(A) Impure function	ons	(B) P	artial Functions	
1.0	(C) Dynamic Func				1 11 1
10	.The functions which			•	passed are called
	(A) Impure function			artial Functions	
	(C) Dynamic Func	tions	(D) P	ure functions	



2. DATA ABSTRACTION

Choose the best answer: (1 Mark	Choose	the	best	answer:	(1	Mark)
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1.	Which of the followi	owing functions that build the abstract data type?			
	(A) Constructors	(B) Destruct	ors	(C) recursive	(D) Nested
2.	Which of the followi	ng functions	that re	trieve information f	from the data type?
	(A) Constructors	(B) Selectors	S	(C) recursive	(D) Nested
3.	The data structure wh	nich is a muta	able or	dered sequence of e	elements is called
	(A) Built in	(B) List		(C) Tuple	(D) Derived data
4.	A sequence of immu	table objects	is calle	ed	
	(A) Built in	(B) List		(C) Tuple	(D) Derived data
5.	The data type whose	representatio	n is kr	own are called	
	(A) Built in datatype		(B) D	erived datatype	
	(C) Concrete datatype		(D) A	bstract datatype	
6.	The data type whose	representatio	n is ur	known are called	
	(A) Built in datatype (B)			erived datatype	
	(C) Concrete datatyp	e	(D) A	bstract datatype	
7.	Which of the following	ng is a compo	ound s	tructure?	
	(A) Pair	(B) Triplet		(C) single	(D) quadrat
8.	Bundling two values	together into	one ca	an be considered as	
	(A) Pair	(B) Triplet		(C) single	(D) quadrat
9.	Which of the followi	ng allow to n	ame th	e various parts of a	multi-item object?
	(A) Tuples	(B) Lists		(C) Classes	(D) quadrats
10.	Which of the followi	ng is constru	cted by	placing expression	ns within square brackets?
	(A) Tuples	(B) Lists		(C) Classes	(D) quadrats



3. SCOPING

1.	. Which of the following refers to the visibility of variables in one part of a program to another part of the same program.				
	to another partof the s	same program.			
2.	(A) Scope The process of binding		(C) Address with an object is cal	•	
3.	(A) Scope Which of the follow variable and object?		(C) late binding cogramming languates		
4.	(A):: Containers for mapping	(B) := ng names of variable	` '	(D) == ed	
5.	(A) Scope Which scope refers to		(C) Binding n current function?		
6.	(A) Local Scope The process of subdiv			(D) Function Scope te sub-programs is called	
	(A) Procedural Progra	amming	(B) Modular progr	ramming	
	(C) Event Driven Prog Which of the following in a computing environ	ng security techniq	· ,	9	
	(A) Password		(B) Authentication	1	
	(C) Access control		(D) Certification		
8.	Which of the following class?	ing members of a	class can be hand	led only from within the	
9.	(A) Public members(C) Secured membersWhich members are a		(B) Protected men (D) Private memberide the class?		
	(A) Public members		(B) Protected men	nbers	
10.	(C) Secured members The members that are	e accessible from w	(D) Private member within the class and		
	its subclasses is called		(D) D		
	(A) Public members		(B) Protected men		
	(C) Secured members		(D) Private member	ers	



4. ALGORITHMIC STRATEGIES

1. The word comes from the name of a Persian mathematician Abu Ja'tar
Mohammed ibn-i Musa alKhowarizmi is called?
(A) Flowchart (B) Flow (C) Algorithm (D) Syntax
2. From the following sorting algorithms which algorithm needs the minimum number of swaps?
(A) Bubble sort (B) Quick sort (C) Merge sort (D) Selection sort
3. Two main measures for the efficiency of an algorithm are
(A) Processor and memory (B) Complexity and capacity (C) Time and space (D) Data and space
4. The algorithm that yields expected output for a valid input in called as
(A) Algorithmic solution (C) Algorithmic problem (B) Algorithmic outcomes (D) Algorithmic coding
5. Which of the following is used to describe the worst case of an algorithm?
 (A) Big A (B) Big S (C) Big W (D) Big O 6. Big Ω is the reverse of
 (A) Big O (B) Big θ (C) Big A (D) Big S 7. Binary search is also called as
(A) Linear search (B) Sequential search
(C) Random search (D) Half-interval search
8. The Θ notation in asymptotic evaluation represents
(A) Base case (B) Average case (C) Worst case (D) NULL case
9. If a problem can be broken into subproblems which are reused several
times, the problempossesses which property?
(A) Overlapping subproblems(B) Optimal substructure(C) Memoization(D) Greedy
10.In dynamic programming, the technique of storing the previously calculated values is called?
(A) Saving value property (B) Storing value property
(C) Memoization (D) Mapping



5. PYTHON – VARIABLES AND OPERATORS

Ch	oose the best answer:	: (1 Mark)		
1.	Who developed Pythe	on?		
	(A) Ritche B) Gu	ido Van Rossum	C) Bill Gates	D) Sunder Pitchai
2.	The Python prompt in	ndicates that Interp	reter is ready to acc	ept instruction.
	(A) >>>	B) <<<	C) #	D) <<
3.	Which of the following	ng shortcut is used	to create new Pytho	on Program?
	(A) Ctrl + C	B) Ctrl + F	C) Ctrl + B	D) Ctrl + N
4.	Which of the following	ng character is use	d to give comments	in Python Program?
	(A) #	B) &	C) @	D) \$
5.	This symbol is used t	o print more than o	one item on a single	line.
	(A) Semicolon(;)	B) Dollor(\$)	C) comma(,)	D) Colon(:)
6.	Which of the following	ng is not a token?		
	(A) Interpreter	B) Identifiers	C) Keyword	D) Operators
7.	Which of the following		-	· •
	(A) break	B) while	C) continue	D) operators
8.	Which operator is als	o called as Compa	rative operator?	
	(A) Arithmetic	B) Relational	C) Logical	D) Assignment

C) not

C) Logical

9. Which of the following is not Logical operator?

B) or

10. Which operator is also called as Conditional operator?

B) Relational

(A) and

(A) Ternary

D) Assignment

D) Assignment



6. CONTROL STRUCTRES

1.	How many importan	t control structures	are there in Python'	?
	A) 3	B) 4	C) 5	D) 6
2.	elif can be considere	d to be abbreviation	n of	
	A) nested if	B) ifelse	C) else if	D) ifelif
3.	What plays a vital ro	ole in Python progra	mming?	
	A) Statements	B) Control	C) Structure	D) Indentation
4.	Which statement is g	generally used as a p	olaceholder?	
	A) continue	B) break	C) pass	D) goto
5.	The condition in the	if statement should	be in the form of	
	A) Arithmetic or Rel	lational expression	B) Arithmetic or 1	Logical expression
	C) Relational or Log	gical expression	D) Arithmetic	
6.	Which is the most co	omfortable loop?		
	A) dowhile	B) while	C) for	D) ifelif
7.	What is the output of	f the following snip	pet?	
	i=1			
	while True:			
	if i%3 ==0: break			
	print(i,end=")			
	i +=1			
	A) 12	B) 123	C) 1234	D) 124
8.	What is the output of T=1	f the following snip	pet?	
	while T:			
	print(True) break			
	A) False	B) True	C) 0	D) 1
9.	Which amongst this	is not a jump staten	nent?	
	A) for	B) pass	C) continue	D) break
10.	Which punctuation s	should be used in the	e blank?	
	if <condition>_</condition>	4		
	statements-block else:	I		
	statements-block	2		
	A);	B):	C) ::	D)!



7. PYTHON FUNCTIONS

1.	A named blocks of o	code that are design	ned to do one specif	fic job is called as	
	(A) Loop	(B) Branching	(c) Function	(D) Block	
2.	A Function which ca	alls itself is called a	as		
	(A) Built-in	(B) Recursion	(C) Lambda	(D) return	
3.	Which function is ca	alled anonymous u	n-named function		
	(A) Lambda	(B) Recursion	(C) Function	(D) define	
4.	Which of the follow	ing keyword is use	d to begin the func	tion block?	
	(A) define	(B) for	(C) finally	(D) def	
5.	Which of the follow	ing keyword is use	d to exit a function	block?	
	(A) define	(B) return	(C) finally	(D) def	
6.	While defining a fur	nction which of the	following symbol:	is used.	
	(A); (semicolon)	(B) . (dot)	(C): (colon)	(D) \$ (dollar)	
7. In which arguments the correct positional order is passed to a function?					
	(A) Required	(B) Keyword	(C) Default	(D) Variable-length	
8.	Read the following s	statement and choo	se the correct states	ment(s).	
	(I) In Python, you function.	don't have to me	ention the specific	data types while defining	
	(II) Python keywords	s can be used as fur	nction name.		
	(A) I is correct and I	I is wrong	(B) Both are cor	rect	
	(C) I is wrong and II	is correct	(D) Both are wro	ong	
9.	Pick the correct on	e to execute the	given statement		
	successfully.if:				
	print(x, " is a leap	p year")			
	(A) $x\%2=0$		(B) $x\%4==0$		
	(C) $x/4=0$		(D) $x\%4=0$		
10.	Which of the follow	ing keyword is use	d to define the fund	ction testpython(): ?	
	(A) define	(B) pass	(C) def	(D) while	



8. STRINGS AND STRING MANIPULATION

1.	Which of the follow	wing is the o	utput of the following			
	python code?					
	str1="TamilNadu"					
	<pre>print(str1[::-1])</pre>					
	(A) Tamilnadu	(B) Tmlau	(C) udanlimaT	(D) udaNlimaT		
2.	What will be the out	put of the foll	owing code?			
	str1 = "Chennai Scho	ools"				
	str1[7] = "-"					
			a-School (C) Type er			
3.		-	s used for concatenation?			
	(A)+	(B) &	(C) *	(D) =		
4.	Defining strings with		_			
	(A) Single line String		, ,	(B) Multiline Strings		
	(C) Double line Strir	ngs	(D) Multiple Stri	(D) Multiple Strings		
5.	Strings in python:					
	(A) Changeable	(B) Mutable	(C) Immutable	(D) flexible		
5.	Which of the following	ing is the slici	ng operator?			
	(A) { }	(B) []	(C) <>	(D) ()		
7.	What is stride?					
	(A) index value of sl	ide operation	(B) first argumen	t of slice operation		
	(C) second argument	t of slice opera	ation (D) third argume	nt of slice operation		
3.	Which of the follow upper case?	ring formattin	g character is used to pr	rint exponential notation in		
	(A) %e	(B) %E	(C) %g	(D) %n		
9.	Which of the follow	ing is used as	s placeholders or replace	ment fields which get		
	replaced along with f	format() funct	tion?			
	(A) { }	(B) <>	(C) ++	(D) ^^		
10.	The subscript of a str	ring may be:				
	(A) Positive (B) N	legative	(C) Both (A) and (B)	(D) Either (A) or (B)		

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9. LISTS, TUPLES, SETS AND DICTIONARY

1.	Pick odd one in connection with colle	ction data	a type		
	(A) List (B) Tuple	(C)) Dictionary	(D) Loop	
2.	Let list1=[2,4,6,8,10], then print(List1	[-2]) will	l result in		
	(A) 10 (B) 8	(0	C) 4	(D) 6	
3.	Which of the following function is use	ed to cou	nt the number o	of elements in a list?	
	(A) count() (B) find()	(C)	len()	(D) index()	
4.	If List=[10,20,30,40,50] then List[2]=	35 will re	esult		
	(A) [35,10,20,30,40,50]	(E	3) [10,20,30,40	,50,35]	
	(C) [10,20,35,40,50]	(Γ	0) [10,35,30,40	,50]	
5.	If List=[17,23,41,10] then List.append	d(32) will	result		
	(A) [32,17,23,41,10]	(E	3) [17,23,41,10	,32]	
6.	(C) [10,17,23,32,41] Which of the following Python funct an existing list?	`	(a) (41,32,23,17) be used to add		nt within
7.	(A) append() (B) append_more() What will be the result of the following			(D) more()	
S=[x**2 for x in range(5)]					
	print(S) (A) [0,1,2,4,5] (B) [0,1,4,9,16]	(C) [0,1	1,4,9,16,25]	(D) [1,4,9,16	5,25]
8.	What is the use of type() function in p	ython?			
	(A) To create a Tuple	(B)	To know the t	ype of an element in to	uple.
	(C) To know the data type of python of	object.(D)) To create a lis	st.	
9.	Which of the following statement is no	ot correct	t?		
	(A) A list is mutable (B) A tu	aple is im	mutable.		
	(C) The append() function is used to a	ıdd an ele	ement.		
	(D) The extend() function is used in tu	uple to ad	d elements in a	list.	
10.	<pre>b. Let setA={3,6,9}, setB={1,3,9}. W print(setA setB)</pre>	/hat will	be the resul	t of the following	snippet?
	$(A){3,6,9,1,3,9} (B) {3,9}$	(0	C) {1}	(D) {1,3,6,9}	
11.	. Which of the following set operation the onethat are common to two sets?	includes	all the elements	s that are in two sets b	ut not
	(A) Symmetric difference (B) Differ	rence	(C) Intersection	n (D) Unio	n
12.	. The keys in Python, dictionary is spec	ified by			
	(A) = (B);	(0	C)+	(D):	



10. PYTHON CLASSES AND OBJECTS

1.	Which of the following are the key f	features of an Obj	ect Oriented Programming
	language?		
	(A) Constructor and Classes	(B) Constructor and	nd Object
	(C) Classes and Objects	(D) Constructor a	and Destructor
2.	Functions defined inside a class:		
	(A) Functions (B) Module	(C) Methods(D) s	ection
3.	Class members are accessed through wh	hich operator?	
	(A) & (B).	(C) #	(D) %
4.	Which of the following method is autor	natically executed v	when an object is created?
	(A) object () (B) del ()	(C) func $()$	(D) init ()
5.	A private class variable is prefixed with	1	
	(A) (B) &&	(C) ##	(D) **
6.	Which of the following method is used	as destructor?	
	(A) init () (B) dest ()	(C) rem $()$	(D) del ()
7.	Which of the following class declaration	n is correct?	
	(A) class class_name	(B) class class_na	me<>
	(C) class class_name:	(D) class class_n	
8.	Which of the following is the output of	the following progr	ram?
	class Student:		
	def init (self, name):		
	self.name=na		
	me print		
	(self.name)		
	S=Student("Tamil")		
	(A) Error (B) Tamil	(C) name	(D) self
9.	Which of the following is the private cl		
	(A) num (B) ##num	(C) \$\$num	(D) &#
10.	The process of creating an object is call		
	(A) Constructor (B) Destructor	(C) Initialize	(D) Instantiation

11. DATABASE CONCEPTS

1.	What is the acronym of DBMS?				
	(A) DataBase Management Symbol(C) DataBase Management System		(B) Database Managing System		
			m	(D) DataBasic Management System	
2.	A table is known	wn as			
	(A) tuple	(B) attribute	e	(C) relation	(D) entity
3.	Which databas	se model represents	paren	t-child relationship	?
	(A) Relational	(B) Network	k	(C) Hierarchical	(D) Object
4.	Relational data	abase model was fi	rst proj	posed by	
	(A) E F Codd	(B) E E Coo	dd	(C) E F Cadd	(D) E F Codder
5.	What type of r	elationship does hi	erarchi	ical model represen	ts?
	(A) one-to-one	e (B) one-to-i	nany	(C) many-to-one	(D) many-to-many
6. Who is called Father of Relational Database from the following?				wing?	
(A) Chris Date				(B) Hugh Darween	
	(C) Edgar Frank Codd			(D) Edgar Frank Cadd	
7. Which of the following is an RDBMS?					
	(A) Dbase	(B) Foxpro	(C) N	Icrosoft Access	(D) SQLite
8. What symbol is used for SELECT statement?					
	(Α) σ	(B) Π	(C) X	K	(D) Ω
9.	A tuple is also	known as			
	(A) table	(B) row	(C) at	ttribute	(D) field
10. Who developed ER model?					
	(A) Chen	(B) EF Codd	(C) C	Chend	(D) Chand

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12. STRUCTURED QUERY LANGUAGE(SQL)

1.	which commands provide definitions for creating table structure, deleting relation			
	and modifying relation schemas.			
	(A) DDL	(B) DML	(C) DCL	(D) DQL
2.	. Which command lets to change the structure of the table?			
	(A) SELECT	(B) ORDER BY	(C) MODIFY	(D) ALTER
3.	3. The command to delete a table is			
	(A) DROP	(B) DELETE	(C) DELETE ALL	(D) ALTER TABLE
4.	Queries can be	e generated using		
	(A) SELECT	(B) ORDER BY	(C) MODIFY	(D) ALTER
5.	The clause used to sort data in a database			
	(A) SORT BY	(B) ORDER BY	(C) GROUP BY	(D) SELECT

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13. PYTHON AND CSV FILES

Ch	Choose the best answer (1 Mark)						
1.	A CSV file is als	so known as a					
	(A) Flat File	(B) 3D Fi	le	(C) String File	(D) Random File		
2.	The expansion of	f CRLF is					
	(A) Control Return and Line Feed		((B) Carriage Return and Form Feed			
(C) Control Router and Line Feed		ĺ	(D) Carriage Return and Line Feed				
3.	Which of the following module is provided by Python to do several operations on the CSV file				?		
	(A) py	(B) xls	((C) csv	(D) os		
4.	Which of the following mode is used when dealing with non-text files like image or exe files?						
	(A) Text mode	(B) Binar	y mode (C) xls mode	(D) csv mode 5		
5.	The command used to skip a row in a CSV file is						
	(A) next()	(B) skip()	(C) omi	it()	(D) bounce()		
6.	Which of the following	lowing is a string	used to termin	nate lines produ	aced by writer()method of csv		
	module?						

(A) Line Terminator (B) Enter key (C) Form feed (D) Data Terminator 7. What is the output of the following program? import csv d=csv.reader(open('c:\PYPRG\ch13\city.csv')) next(d) for row in d: print(row) if the file called "city.csv" contain the following details

mumbai, andheri (A) chennai, mylapore (B) mumbai, and heri (C) chennai (D) chennai, mylapore mumbai, and heri mumbai

8. Which of the following creates an object which maps data to a dictionary?

(A) listreader()

chennai, mylapore

(B) reader()

(C) tuplereader()

(D) DictReader ()

9. Making some changes in the data of the existing file or adding more data is called

(A) Editing

(B) Appending

(C) Modification

(D) Alteration

10. What will be written inside the file test.csv using the following program import csv

D = [['Exam'],['Quarterly'],['Halfyearly']] csv.register_dialect('M',lineterminator = '\n') with open('c:\pyprg\ch13\line2.csv', 'w') as f: wr = csv.writer(f,dialect='M') wr.writerows(D) f.close()

(A) Exam Quarterly Halfyearly

(B) Exam Quarterly Halfyearly

(C) E Q Η

Quarterly, Halfyearly

(D) Exam,



14. IMPORTING C++ PROGRAMS IN PYTHON

1.	Which of the following is not a scripting language?					
	(A) JavaScript	(B) PHP	(C) Perl	(D) HTML		
2.	Importing C++ progr	Importing C++ program in a Python program is called				
	(A) wrapping	(B) Downloading	(C) Interconnecting	(D) Parsing		
3.	The expansion of AP	PI is				
	(A) Application Prog	gramming Interprete	er (B) Application Pro	ogramming Interface		
	(C) Application Perfo	orming Interface	(D) Application Pro	ogramming Interlink		
4.	A framework for inte	erfacing Python and	I C++ is			
	(A) Ctypes	(B) SWIG	(C) Cython	(D) Boost		
5.	Which of the following is a software design technique to split your code into separate parts?					
	(A) Object oriented Programming		(B) Modular programming			
	(C) Low Level Programming		(D) Procedure oriented Programming			
6.	The module which al	llows you to interfa	ce with the Windows	operating system is		
	(A) OS module	(B) sys module	(c) csv module (d) getopt module		
7.	getopt() will return a	n empty array if the	ere is no error in splitti	ng strings to		
8.	 (A) argv variable (B) opt variable (c) args variable (d) ifile variable Identify the function call statement in the following snippet. if name ==' main ': main(sys.argv[1:]) 					
	(A) main(sys.argv[1:		(C)main	(D) argv		
9.	Which of the followscientific data?	wing can be used	for processing text,	numbers, images, and		
	(A) HTML	(B) C	(C) C++	(D) PYTHON		
10.	What does name	contains?				
	(A) c++ filename (F	3) main() name	(C) python filename	(D) os module name		



15. DATA MANIPULATION THROUGH SQL

(A) Database (B) DBMS (C) Information (D) Records SQLite falls under which database system? (A) Flat file database system (B) Relational Database system (C) Hierarchical database system (D) Object oriented Database system (B) Relational Database system (C) Hierarchical database system (D) Object oriented Database system (C) Hierarchical database system (D) Object oriented Database system (B) Key (C) Cursor (D) Insertion point (A) Pointer (B) Key (C) Cursor (D) Insertion point (A) Any changes made in the values of the record should be saved by the command (A) Save (B) Save As (C) Commit (D) Oblige (Mich of the following executes the SQL command to perform some action? (A) execute() (B) key() (C) cursor() (D) run() (E) Which of the following function retrieves the average of a selected column of row a table? (A) Add() (B) SUM() (C) AVG() (D) AVERAGE() (C) The function that returns the largest value of the selected column is (A) MAX() (B) LARGE() (C) HIGH() (D) MAXIMUM() (B) Which of the following is called the master table? (A) sqlite_master (B) sql_master (C) main_master (D) master_main (B) The most commonly used statement in SQL is (A) cursor (B) select (C) execute (D) commit (D) Which of the following clause avoid the duplicate? (A) Distinct (B) Remove (C) Where (D) GroupBy						
2. SQLite falls under which database system? (A) Flat file database system (B) Relational Database system (C) Hierarchical database system (D) Object oriented Database system 3. Which of the following is a control structure used to traverse and fetch the record the database? (A) Pointer (B) Key (C) Cursor (D) Insertion point 4. Any changes made in the values of the record should be saved by the command (A) Save (B) Save As (C) Commit (D) Oblige 5. Which of the following executes the SQL command to perform some action? (A) execute() (B) key() (C) cursor() (D) run() 6. Which of the following function retrieves the average of a selected column of row a table? (A) Add() (B) SUM() (C) AVG() (D) AVERAGE() 7. The function that returns the largest value of the selected column is (A) MAX() (B) LARGE() (C) HIGH() (D) MAXIMUM() 8. Which of the following is called the master table? (A) sqlite_master (B) sql_master (C) main_master (D) master_main (D) The most commonly used statement in SQL is (A) cursor (B) select (C) execute (D) commit	1.	Which of the following is an organized collection of data?				
(A) Flat file database system (C) Hierarchical database system (D) Object oriented Database system (C) Hierarchical database system (D) Object oriented Database system (E) Which of the following is a control structure used to traverse and fetch the record the database? (A) Pointer (B) Key (C) Cursor (D) Insertion point (A) Pointer (E) Save As (C) Commit (D) Oblige (E) Which of the following executes the SQL command to perform some action? (A) execute() (B) key() (C) cursor() (D) run() (E) Which of the following function retrieves the average of a selected column of row a table? (A) Add() (B) SUM() (C) AVG() (D) AVERAGE() (C) HIGH() (D) MAXIMUM() (E) Which of the following is called the master table? (A) Sqlite_master (B) sql_master (C) main_master (D) master_main (D) The most commonly used statement in SQL is (A) cursor (B) select (C) execute (D) commit		(A) Database	(B) DBMS	(C) Information	(D) Records	
(C) Hierarchical database system (D) Object oriented Database system Which of the following is a control structure used to traverse and fetch the record the database? (A) Pointer (B) Key (C) Cursor (D) Insertion point Any changes made in the values of the record should be saved by the command (A) Save (B) Save As (C) Commit (D) Oblige Which of the following executes the SQL command to perform some action? (A) execute() (B) key() (C) cursor() (D) run() Which of the following function retrieves the average of a selected column of row a table? (A) Add() (B) SUM() (C) AVG() (D) AVERAGE() The function that returns the largest value of the selected column is (A) MAX() (B) LARGE() (C) HIGH() (D) MAXIMUM() Which of the following is called the master table? (A) sqlite_master (B) sql_master (C) main_master (D) master_main The most commonly used statement in SQL is (A) cursor (B) select (C) execute (D) commit	2. SQLite falls under which database system?					
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6. Which of the following function retrieves the average of a selected column of row a table? (A) Add() (B) SUM() (C) AVG() (D) AVERAGE() 7. The function that returns the largest value of the selected column is (A) MAX() (B) LARGE() (C) HIGH() (D) MAXIMUM() 8. Which of the following is called the master table? (A) sqlite_master (B) sql_master (C) main_master (D) master_main 9. The most commonly used statement in SQL is (A) cursor (B) select (C) execute (D) commit	5.	Which of the following executes the SQL command to perform some action?				
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8. Which of the following is called the master table? (A) sqlite_master (B) sql_master (C) main_master (D) master_main 9. The most commonly used statement in SQL is (A) cursor (B) select (C) execute (D) commit 10. Which of the following clause avoid the duplicate?	7.	The function that returns the largest value of the selected column is				
(A) sqlite_master (B) sql_master (C) main_master (D) master_main 7. The most commonly used statement in SQL is (A) cursor (B) select (C) execute (D) commit 10. Which of the following clause avoid the duplicate?		(A) MAX()	(B) LARGE()	(C) HIGH()	(D) MAXIMUM()	
9. The most commonly used statement in SQL is (A) cursor (B) select (C) execute (D) commit 10. Which of the following clause avoid the duplicate?	3.	Which of the following is called the master table?				
(A) cursor (B) select (C) execute (D) commit 10. Which of the following clause avoid the duplicate?		(A) sqlite_master	(B) sql_master	(C) main_master	(D) master_main	
10. Which of the following clause avoid the duplicate?	9.	The most commonly used statement in SQL is				
•		(A) cursor	(B) select	(C) execute	(D) commit	
(A) Distinct (B) Remove (C) Where (D) GroupBy	10.	0. Which of the following clause avoid the duplicate?				
		(A) Distinct	(B) Remove	(C) Where	(D) GroupBy	



16. DATA VISUALIZATION USING PYTHON: LINE CHART, PIE CHART AND BAR CHART

Choose the best answer (1 Mark)

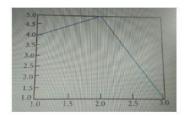
- 1. Which is a python package used for 2D graphics?
 - (A) matplotlib.pyplot (B) matplotlib.pip (C) matplotlib.numpy
- (D) matplotlib.plt
- 2. Identify the package manager for Python packages, or modules.
 - (A) Matplotlib
- (B) PIP
- (C) plt.show()
- (D) python package
- 3. Read the following code: Identify the purpose of this code and choose the right option from the following. C:\Users\YourName\AppData\Local\Programs\Python\Python36-32\Scripts>pip version
 - (A) Check if PIP is Installed
- (B) Install PIP

(C) Download a Package

- (D) Check PIP version
- 4. Read the following code: Identify the purpose of this code and choose the right option from the following.C:\Users\Your Name\AppData\Local\Programs\Python\Python36-32\Scripts>piplist
 - (A) List installed packages (B) list command (C) Install PIP (D) packages installed
- 5. To install matplotlib, the following function will be typed in your command prompt. What does "-U" represents? Python –m pip install –U pip
 - (A) downloading pip to the latest version
- (B) upgrading pip to the latest version

(C) removing pip

- (D) upgrading matplotlib to the latest version
- 6. Observe the output figure. Identify the coding for obtaining this output.

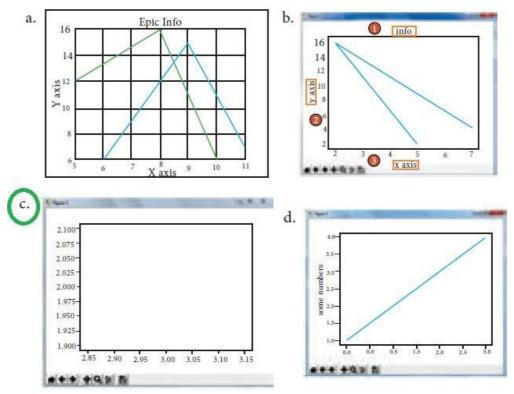


- (A) import matplotlib.pyplot as plt plt.plot([1,2,3],[4,5,1]) plt.show()
- (B) import matplotlib.pyplot as plt plt.plot([1,2],[4,5]) plt.show()
- (C) import matplotlib.pyplot as plt plt.plot([2,3],[5,1]) plt.show()
- (D) import matplotlib.pyplot as plt plt.plot([1,3],[4,1]) plt.show()

12^{tn} - Computer Science

- Read the code:
 - (A) import matplotlib.pyplot as plt
 - (B) plt.plot(3,2)
 - (C) plt.show()

Identify the output for the above coding.



- 8. Which key is used to run the module?
 - (A) F6

- (B) F4
- (C) F3
- (D) F5
- 9. Identify the right type of chart using the following hints.

Hint 1: This chart is often used to visualize a trend in data over intervals of time.

- Hint 2: The line in this type of chart is often drawn chronologically.
- (A) Line chart
- (B) Bar chart (C) Pie chart (D) Scatter plot
- 10. Read the statements given below. Identify the right option from the following for pie chart. Statement A: To make a pie chart with Matplotlib, we can use the plt.pie() function. Statement B: The autopot parameter allows us to display the percentage value using the Python string formatting.
 - (A) Statement A is correct

- (B) Statement B is correct
- (C) Both the statements are correct
- (D) Both the statements are wrong



Education Is The

Most Powerful Weapon

Which You Can Use

To Change The World.

ALL THE BEST!



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