## Academic Year (2020-21)

## Department of Information Technology (Under Graduate Course) B.Sc.IT **Question Bank** Semester – III Python Programming (USIT301) **Questions: Advanced Learner** 1.\_\_Which one of the following has the highest precedence in the expression? A. Exponential B. Addition C. Multiplication D. Parentheses 2. What will be the error of the following code? b = abc=ab//2print(c) A. NameError B. SyntaxError C. TypeError D. KeyError 3. What will be the output of below Python code? str1="Application" str2=str1.replace('a', 'A') print(str2). A. application B. Application C. ApplicAtion D. application 4. Which of the following function headers is correct? A. def fun (a = 2, b = 3, c)B. def fun (a = 2, b, c = 3)C. def fun (a, b = 2, c = 3) D. def fun (a, b, c = 3, d) 5. What is the output for the following comparison operator? t1=(10,20,30,40,50)t2=(10,20,30,40,50)· t1>t2 A. True B. False C. You cannot compare two tuples. D. It will print t1 & t2 6. What will the list () return as output? t1=(10,20,30,40,50)

b=list(t1)print(b)

A. (10.20.30,40.50) B. Tuple does not support list function C. [10,20.30,50.50] D. [10,20.30,50.50] D. [10,20.30,40.50] Twhat is the correct syntax to access the private variable data hidden? A. Object		
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A. ("Python) B. ["Python"]		v
B. ["Python"]		
r- \1		
		<u> </u>

```
D. ['P','y','t','h','o','n']
6. What will be the output for max () in tuple?
a=(1,2,3.4,'h')
print(max(a))
   A. 'h'
   B. 3.4
   C. Error
   D. Max function is not supported by tuple.
               refers to defining a new class with no modification to an existing class.
   A. Static method
   B. Constructor
   C. Inheritance
   D. Polymorphism
8. Poly means ______ and Morphs means _____.
   A. Many ,type
   B. Form, type
   C. Many, forms
   D. Structure, data
9. How do we install tkinter in the system?
   A. pip install python
   B. tkinter install
   C. pip install tkinter
   D. tkinter pip install
10. Minimum number of arguments we pass in a function to create a rectangle using canvas tkinter?
   A. 2
   B. 4
   C. 6
   D. 5
                                         Assignments
   1. What will be the output of the following Python code?
   i = 0
   while i < 5:
      print(i)
      i += 1
      if i == 3:
             break
      else:
             print(0)
   A. 00102
   B. 01230
   C. error
   D. 01234
2. What is a variable defined outside a function referred to as?
   A. A static variable
   B. A global variable
   C. A local variable
   D. An automatic variable
3. If a=[10, h', 20, 50], what will be sum(a)?
   A. 80
```

B. 'h'
C. Error
D. 80h
4. Constructor is used to create a
A. Class
B. Object
C. Method
D. Memory
5.Define Overloading.
A. Providing less than two functions with the same name.
B. Providing more than one function with a different name.
C. Providing more than one function with the same parameter.
D. Providing more than one function with the same name & parameter list.
Data Structures (USIT302)
Questions: Advanced Learner
1. Complexity of the algorithm is the andrequirement of algorithm
A. Data and information
B. File and system
C. Time and space
D. Input and output
2 If the sunning time of election is longest for all inputs then it is called complexity
2. If the running time of algorithm is longest for all inputs then it is called complexity
A. Best case
B. Worst case
C. Average case
D. Binary case
3.For we need to locate the position of the node after which we want to insert the
new node.
A. deleting node
B. searching node
C. inserting node
D. traversing node
4. To insert an element in sorted linked list, list should be
A. Existing
B. Complete
C. Full
D. Sorted
D. Softed
5. The prefix form of an infix expression $p + q - r t^*$ is
A. $+ pq - rt$
B. – +pqr t*
C +pq*rt
D +*pqrt
-· · r1-
6. In Reverse Polish notation, expression A*B+C*D is written as
A. AB*CD*+
B. A*BCD*+

C. AB*CD+*
D. A*B*CD+
7. The node which does not have any child node is known as node A. Max B. Root C. Tertiary D. Leaf
8 tree is used to enhance the performance of binary tree A. Tree enhancer B. Binary search tree C. Traversal tree D. Sorted tree
9. When a vertex does not belong to any edges, then it is known as vertex A. Equal B. Isolated C. Parallel D. Same
10. When the start and end vertex is same in a graph, is formeD.  A. Open loop B. Cycle C. Bucket D. Frame
Questions: Slow Learner  1 is a set of characteristics of algorithm  A. Process and Input  B. Time and schedule  C. Planning and Process  D. No input and no output
<ul> <li>2 type of data structures will store data of different data types</li> <li>A. Static</li> <li>B. Non-Homogeneous</li> <li>C. Structural</li> <li>D. Homogeneous</li> </ul>
<ul> <li>3 Which of the following operations is performed more efficiently by doubly linked list than by singly linked list?</li> <li>A. Deleting a node whose location in given</li> <li>B. Searching of an unsorted list for a given item</li> <li>C. Inverting a node after the node with given location</li> </ul>

D. Traversing a list to process each node
<ul> <li>4. Before inserting a node we need to check</li> <li>A. list is empty or not.</li> <li>B. list exists or not</li> <li>C. list can be traversed or not</li> <li>D. list has to be updated</li> </ul>
5. When a stack is organized as an array, a variable named Top is used to point to the top element of the stack. Initially, the value of Top is set toto indicate an empty stack.  A1  B. 0  C. 1  D. X
6. Jan Lukasiewicz, who suggested two alternative notations to represent an arithmetic expression belonged to which nationality?  A. English B. Polish C. German D. Swedish
7. The inorder traversal of tree is as A. Left-right-root B. Root-right-left C. Left-root-right D. Root-left-right
8. The preorder traversal of tree is as A. Left-right-root B. Root-right-left C. Left-root-right D. Root-left-right
9. When the vertexes are connected using specific direction it is known as A. Simple graph B. Close graph C. Directed graph D. Undirected graph
10. In Floyd warshall the first step will involve to remove all the A. Edges B. Vertices C. Self loops D. Path
Assignments  1. The dimension of one dimensional array starts with  A. Zero

B. One
C. Two
D. Even numbers
2. The postfix form of the following infix notation is : (A + B. * (C*D – E. * F A. AB + CD*E – *F* B. AB+ CDE + – * F* C. AB+ CD – EF + – ** D. ABCDEF* – + * +
3. What are the sequence of popped out values if the sequence of operations - push(1., push(2., pop, push(1., push(2., pop, pop, pop, pop, push(2., pop are performed on a stack.  A. 2, 2, 1, 1, 2  B. 2, 2, 1, 2, 2  C. 2, 1, 2, 2, 1  D. 2, 1, 2, 2, 2
4. The postorder traversal of tree is as
A. Left-right-root
B. Root-right-left
C. Left-root-right
D. Root-left-right
5. A spanning tree is a subset of graph where all vertices are covered with possible number of edges A. Maximum B. Zero C. Minimum D. Infinity
Computer Networks( USIT303 )
Questions: Advanced Learner
a) The of a signal is its absolute value of its highest intensity proportional to the energy
it carries
a) Frequency
b) Throughput
c) Delay
d) peak amplitude
b) InTransmission we send 1 start Bit (0) at the beginning and one or more stop bits
(1s) at the end of each byte.
a) synchronous transmission
b) asynchronous transmission

		c) isochronous transmission
		d) Chronos transmission
	c)	The technique expands the bandwidth of a signal by replacing each data bit with n
		bits using a spreading code.
		a) FDM
		b) DSSS
		c) FHSS
		d) TDM
	d)	FHSS uses
		Frequency synthesizer
	_	Multiplexer
		Hopping machine
	_	De-multiplexer
		means the sending station must not send frames at a rate faster than the receiving station
		sorb them
a)	•••	error control
b)		frame control
c)		data control
d)		flow control
u)		now control
6. I	n	the available bandwidth of a link is divided into frequency bands
a)		CDMA
b)		TDMA
c)		FDMA
d)		SDMA
		Routing table is the one that is created once manually but it is updated automatically
_		ver there is some change in the internet
a)		Static
b)		Dynamic
c)		Modified
d)		updated
,	n	the destination host and the source host are in the different physical network.
a)		Presentation
b)		Network
c)		Data-Link
d)		Physical
	n ca	ase of a logical window is maintained in the buffer of the sender
a)		user datagram protocol
b)		sliding window protocol
c)		transmission control protocol
d)		simple protocol
10.		Is a protocol used mainly to access web pages on the world wide web
a)		HTML
b)		web documents
c)		HTTP
d)		Webpages
		1 0
		Questions: Slow Learner
1. V	Vhi	ch of the following is not one of the components of a data communication system?
		essage

b)	Sei	nder		
c)	c) Communication			
d)	rec	eiver		
2. T	CP	is		
a)		transm	ission c	control protocol
b)		transfe	er contro	ol protocol
c)		transfe	er comm	unication protocol
d)		transm	ission c	communication protocol
	3.	In a		network, each packet in a message may follow a different path.
			a)	datagram
			b)	virtual-circuit
			c)	circuit-switched
			d)	Ring
	4.	Packet	switchi	ing can be divided into categories.
		a.	two	
		b.	three	
		c.	four	
		d.	five	
	5.	In Cell	lular sys	stem cluster contains cells.
		a.	5	
		b.	8	
		c.		
		d.		
	6.			ata link layer separates a message from one source to a destination, or from
		other r	nessage	s going from other sources to other destinations.
			a)	Digitizing
			b)	Controlling
			c)	Framing
			d)	decapsulation
	7.	The		technique is one of the open-loop congestion policies.
				backpressure
			b)	choke packet
				implicit signaling
	0	TD :	d)	retransmission policy
	8.			protocol.
		a)		ction-oriented unreliable
			b)	connection-oriented reliable
			c)	connectionless unreliable
	0		d)	connectionless reliable
	9.			echanism provided by internet which helps in copying a file from one host to
				wn as
		a.	SMTP	
			FTP DNC a	
			DNS s	
		a.	Telnet	
	10.	This ti	mer is u	used to deal with the situation when the receiver advertises the window size as 0
		that lea	ads to w	indow shut down at the sender
		a.	time w	ait
		b.	keepal	ive

		c.	Retrar	nsmission
		d.	Persis	tent
				<u>Assignments</u>
	1	When	a liser	wants to access an application program or utility located on a remote machine,
	1.			Formslogin.
		ne or s	a)	local
			b)	remote
			/	local or remote
	•		d)	guest
	2.	In IPv6		field in the base header restricts the lifetime of a datagram.
			a)	version
				priority
			c)	hop limit
			d)	flow count
	3.	Blueto	oth wit	h multiple form a network called a
			a)	scatternet; piconets
			b)	piconets: scatternet
			c)	piconets: bluenet
			d)	bluenet; scatternet
	4.	Data-li	nk laye	er of a point-to-point link has sublayer(s).
			a)	one
			b)	two
			c)	no
			d)	four
	5	Two co	,	a scrambling techniques are
	٥.	1 WO CC	a)	NRZ and RZ
			b)	AMI and NRZ
			,	B8ZS and HDB3
			/	Manchester and differential Manchester
			d)	Wallenester and differential Manchester
				— · · · · · · · · · · · · · · · · · · ·
				Database Management Systems (USIT304)
				<b>Questions: Advanced Learner</b>
1.		How	v to giv	re single line comment in PL/SQL
a.		//		
b.		/*		
c.				
d.		<		
2.		PL/SO	L is	to SQL.
a.		new		
b.		extensi	ion	
c.		main	.011	
d.		import	ant	
u.		mport	ant	
3.		Find in	walid d	leclaration
				UMBER(10);
a.				
b.				BER := 100;
c.				RCHAR2(2) NOT NULL;
d.		v_str V	AKCI	HAR2(1) NOT NULL := 'Y';

<ul> <li>4. Which package is get used to print output on screen</li> <li>a. DBMS_PRINT</li> <li>b. DBMS_OUTPUT</li> <li>c. DBMS_SHOW</li> <li>d. DBMS_COUT</li> <li>5. Which one is invalid procedure?</li> <li>a. PUT</li> <li>b. PUT_LINE</li> <li>c. NEW_LINE</li> <li>d. NEW</li> </ul>
<ul> <li>6. PL/SQL groups the syntax of the programs into units called</li> <li>a. sections</li> <li>b. blocks</li> <li>c. parts</li> <li>d. queries</li> </ul>
7. PL/SQL named blocks are called a. subprograms b. anonymous c. code d. query
<ul> <li>8. PL/SQL unnamed blocks are called</li> <li>a. subprograms</li> <li>b. anonymous</li> <li>c. code</li> <li>d. query</li> </ul>
9 can be referred to as either function or procedures. a. subprograms b. anonymous c. code d. query
10. DECLARE section begins with the keyword DECLARE and ends when the keyword a. END b. BEGIN c. END DECLARE d. STOP  Questions: Slow Learner

a) One class may have many teachers One teacher can have many classes (	1.	What do you mean by one to many relationship between Teacher and Class table?
Many classes may have many teachers Many teachers may have many classes  In one-to-many relationship, the table on 'many' sides is called	a)	One class may have many teachers
d) Many teachers may have many classes  2. In one-to-many relationship, the table on 'many' sides is called	b)	
2. In one-to-many relationship, the table on 'many' sides is called	c)	
a) Parent b) Child c) Sister d) Master  3. Which of the following enables us to view data from a table based on a specific criterion a) Form b) Query c) Macro d) Report  4. This key that uniquely identifies each record is called: a) Primary Key b) Key Record c) Unique Key d) Field Name  5. Which name must be unique within a database? a) Table b) Field c) Record d) Character  6. In an ER Diagram an entity set is represented by a) Rectangle b) Ellipse c) Diamond d) Circle  7. The collection of related data is termed as a) Data b) Database c) DBMS d) Information  8. The process of hiding irrelevant details from the user is called data abstraction data encryption c) data integrity d) data encapsulation  9. The total number of attributes which in the relation is called the of the relation.	d)	Many teachers may have many classes
a) Parent b) Child c) Sister d) Master  3. Which of the following enables us to view data from a table based on a specific criterion a) Form b) Query c) Macro d) Report  4. This key that uniquely identifies each record is called: a) Primary Key b) Key Record c) Unique Key d) Field Name  5. Which name must be unique within a database? a) Table b) Field c) Record d) Character  6. In an ER Diagram an entity set is represented by a) Rectangle b) Ellipse c) Diamond d) Circle  7. The collection of related data is termed as a) Data b) Database c) DBMS d) Information  8. The process of hiding irrelevant details from the user is called data abstraction data encryption c) data integrity d) data encapsulation  9. The total number of attributes which in the relation is called the of the relation.	2	
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c) Sister d) Master  3. Which of the following enables us to view data from a table based on a specific criterion Form D) Query C) Macro Report  4. This key that uniquely identifies each record is called: Primary Key Every Every Coord		
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	u)	uata encapsuration
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b)	Tuple
c)	Degree
d)	Attribute
10.	is an extension of the Hierarchical model.
a)	Relational Model
b)	Data Model
c) d)	Network Model ER-Model
u)	ER-Wodel
	Assignments
	Thich one of the following is a set of one or more attributes taken collectively to uniquely identify cord?
a.	Candidate key
b.	Sub key
c.	Super key
d.	Foreign key
2. W	Thich one of the following attributes can be taken as a primary key?
a.	Name
b.	Street
c.	Id
d.	Department
	n attribute in a relation is a foreign key if the key from one relation is used as an oute in that relation.
a.	Candidate
b.	Primary
c.	Super
d.	Sub
tuple	integrity constraint requires that the values appearing in specified attributes of any e in the referencing relation also appear in specified attributes of at least one tuple in the renced relation.
a.	Referential
b.	Referencing
c.	Specific
d.	Primary
5. A	set of possible data values is called
a.	Attribute
b.	Degree
c.	Tuple
d.	Domain

## Applied Mathematics (USIT305)

## ADVANCED LEARNER

- 1) If a matrix A is both symmetric and skew symmetric then matrix A is
- a) a scalar matrix
- b) a diagonal matrix
- c) a zero matrix of order  $n \times n$
- d) a rectangular matrix
  - 2) The eigenvalues are roots of
  - a) The characteristic equation
  - b) Rank of matrix
  - c) Polynomial
- d) Eigenvector
  - 3) Determine the order and degree of the differential equation

$$2 \square \square^4 \square / \square \square^4 + 5 \square^2 (\square \square / \square \square)^3 - \square \square = 0$$

- a) Order=4 and Degree=1
- b) Order=3 and Degree=1
- c) Order=1 and Degree=4
- d) Order=1 and Degree=3
- Which of the following equations is an exact differential equation?
- a)  $(\square^2 + 1) \square \square + \square \square \square \square = 0$
- **b**)  $(\Box + \Box) \Box \Box + 2 \Box \Box \Box = 0$
- c)  $2 \square \square \square \square + (\square^2 2) \square \square = 0$ d)  $\square^2 \square \square + (\square^2 2) \square \square = 0$
- Convolution of e^t and t is
- a) e^t-t-1
- b)  $e^{(-t)-t-1}$
- c)  $e^t+t+1$
- d)  $e^{(-t)+t+1}$
- 6) Inverse Laplace transform of  $F(s) = \log \frac{f(s)}{f(s+4)/(s+8)}$ 
  - a)  $e^{(-8t)}-e^{(-4t)}$
  - b)  $e^{(-8t)}+e^{(-4t)}$
  - c)  $e^{(-8t)-e^{(-4t)}/t}$
  - d)  $e^{-(-8t)} + e^{-(-4t)}/t$
- 7) The triple integral of a function f(x,y,z)=1 over a solid V gives
  - a) Surface area of the region V
  - Volume of the solid bounded by V b)
  - Hyper-volume of the hyper-solid
  - d) None of the above
- 8) The equation  $\Box^2/\Box^2 + \Box^2/\Box^2 = 1$  represents
  - a) Parabola
  - b) Circle
  - c) Ellipse
  - d) Hyperbola
- 9) Error function is an
  - a) Odd function of x
  - b) Even function of x
  - c) Neither odd nor even
- d) Can't say
- 10) Error function of ∞ is
  - a) 0
  - b) 1

c) ∞
d) -1
SLOW LEARNER
1) To find rank of matrix using Normal form which operations are allowed
a) Only row
b) Only column
c) Both row and column
d) Row or column
2) Cayley-Hamilton theorem states that Every matrix satisfy its own
a) Characteristic Equation
b) Differential Equation
c) Potential Equation
d) Caley's Equation
3) Which of the following is Clairaut's form of Differential equation?
a) $y = xp + f(p)$
b) $x = yp + f(p)$
c) $p = xy + f(x)$
d) p = xy + f(y)
4) Solution of the differential equation
a) Parabola
b) Circle
c) Straight line
d) Hyperbola
5) The Lenless transforms can also be used to solve
5) The Laplace transform can also be used to solve a) Linear equation
b) Differential equation
c) Binomial equation
d) Canonical equation
6) In L(f(t), f(t) is defined for all values of t
a) Real
b) Integer
c) Negative
d) Positive
7) The double integral of a function $g_{-}f(y,y)$ even a region D gives
7) The double integral of a function z=f(x,y) over a region R gives a) Length of the interval
b) Area of the region R
c) Volume of the solid bounded by z and R
d) Hyper-volume of the hyper-solid
8) While changing the integral from Cartesian coordinates to polar coordinates over a circle, the
following substitutions are made
a) $x = r \sin[f_0]\theta, y = r \cos[f_0]\theta$
b) $x = r \cos \theta$ , $y = r \sin \theta$
c) $x = \sin[f_0]\theta$ , $y = \cos[f_0]\theta$
d) $x = \cos[f_0]\theta$ , $y = \sin[f_0]\theta$

9)The value of erf(-x)+ertc(x)=
a) 2
b) 1
c) 3
d) 4
10) What is the value of β(3,2)?
a) 1/14
b) 1/16
c) 1/12
d) 1/10