

1 MARK QUESTIONS

Tokens- I mark questions

<p>Write the full form of IDLE Ans integrated development learning environment</p>	<p>Which of the following is not an assignment operator? i.) $**=$ ii.) $/=$ iii.) $==$ iv.) $==$ $\%=$ Ans (iii) ==</p>
<p>Write the type of tokens from the following. i. $_Var$ ii. In Ans (i) identifier (ii) operator-membership operator</p>	<p>Find the correct identifiers out of the following, which can be used for naming Variable, Constants or Functions in a python program : For, while, INT, NeW, del, 1stName, Add+Subtract, name1 Ans For, INT, NeW, name1</p>
<p>Find the correct identifiers out of the following, which can be used for naming variable, constants or functions in a python program : While, for, Float, int, 2ndName, A%B, Amount2, Counter Ans While, Float, _Counter, Amount2</p>	<p>Which of the following is valid logical operator (i) $\&\&$ (ii) $>$ (iii) and (iv) $==$ Ans (iii) and</p>
<p>Write the data type of following literals: (i) 123 (ii) True Ans (i) number-integer (ii) Boolean</p>	<p>Which of the following is not a valid identifier name in Python? Justify reason for it not being a valid name. a) 5Total b) _Radius c) pi d) While Ans (a) 5total-it starts with number (c) pi-is a keyword</p>
<p>Which of the following are valid operator in Python: (i) $*/$ (ii) is (iii) $^$ (iv) $like$ Ans (ii) is-identity operator</p>	<p>Which of the following are Keywords in Python ? (i) break (ii) check (iii) range (iv) while Ans (i) break (iii) range (iv) while</p>
<p>Find the invalid identifier from the following a) def b) For c) _bonus d)First_Name Ans (a) def</p>	<p>Which of the following is valid arithmetic operator in Python: (i) $//$ (ii) $?$ (iii) $<$ (iv) and Ans (i) //</p>
<p>Find the invalid identifier from the following a) Subtotal b) assert c) temp_calc d) Name2 Ans (b) assert- it is a keyword</p>	<p>Which operator is used for replication? a) $+$ b) $\%$ c) $*$ d) $//$ Ans (c) *</p>
<p>What is the value of the expression $4+4.00, 2**4.0$ Ans (8.0, 16.0)</p>	<p>Identify the invalid keyword in Python from the following: (a) True (b) None (c) Import (d) return Ans (c) Import</p>
<p>Find the operator which cannot be used with a string in Python from the following: (a) $+$ (b) in (c) $*$ (d) $//$ Ans (d) //</p>	<p>Name the mutable data types in Python. Ans : list,dictionary</p>
<p>Find the valid identifier from the following a) My-Name b) True c) 2ndName d) S_name Ans (d) S_name</p>	<p>Identify the valid logical operator in Python from the following. a) $?$ b) $<$ c) $**$ d) and Ans (d) and</p>
<p>Which one is valid relational operator in Python</p>	<p>Which of the following can be used as valid variable identifiers in Python?</p>

Operators evaluation - I mark questions

Evaluate the following expressions:	
a) $8/4+4^{**}2//5\%2-8$	Ans -5.0
b) $10 \geq 5$ and $7 < 12$ or not $13 == 3$	Ans True
c) $6 * 3 + 4^{**}2 // 5 - 8$	Ans 13
d) $10 > 5$ and $7 > 12$ or not $18 > 3$	Ans False
e) $18 \% 4 ** 3 // 7 + 9$	Ans 11
f) $2 > 5$ or $5 == 5$ and not $12 <= 9$	Ans True
g) $6 * 3 + 4^{**}2 // 5 - 8$	Ans 13
h) $10 > 5$ and $7 > 12$ or not $18 > 3$	Ans False
i) $51+4-3^{**}3//19-3$	Ans 51
j) 1718 and not $19 == 0$	Ans True
k) $8 * 3 + 2^{**}3 // 9 - 4$	Ans 25
l) $12 > 15$ and $8 > 12$ or not $19 > 4$	Ans False
m) not($20 > 6$) or ($19 > 7$) and ($20 == 20$)	Ans True
n) $17\%20$	Ans 17
o) $2 ** 3 ** 2$	Ans 512
p) $7 // 5 + 8 * 2 / 4 - 3$	Ans 2.0
If given A=2,B=1,C=3, What will be the output of following expressions:	
(i) <code>print((A>B) and (B>C) or(C>A))</code>	Ans True
(ii) <code>print(A**B**C)</code>	Ans 2
Write the output of the following python expression:	
(a) <code>print((4>5 and (2!=1) or (4<9)))</code>	Ans True
(b) <code>print(2 + 3*4//2 - 4)</code>	Ans 4
(c) <code>print(10%3 - 10//3)</code>	Ans -2

Module Identification- I mark questions

Name the Python Library modules which need to be imported to invoke the following functions:			
(i) ceil()	(ii) randrange()		Ans (i) math (ii) random
(i) sin()	(ii) randint ()		Ans (i) math (ii) random
(i) sqrt()	(ii) randint()		Ans (i) math (ii) random
(i) dump()	(ii) random()		Ans (i) pickle (ii) random
(i) round()	(ii) load()		Ans (i) math (ii) pickle
(i) writerow()	(ii) sqrt()		Ans (i) csv (ii) math
(i) replace()	(ii) load()		Ans (i) string (ii) pickle
(i) cursor()	(ii) pi		Ans (i) mysql.connector (ii) math
(i) sin()	(ii) reader()		Ans (i) math (ii) csv
(i) cursor()	(ii) reader()		Ans (i) mysql.connector (ii) csv
i) stdin()	ii) load()		Ans (i) sys (ii) pickle
(i) log()	(ii) writer()		Ans (i) math (ii) csv
Which of the following functions generates an integer?			
a) uniform() b) randint() c) random() d) None of the above			Ans (b) randint()
Which module is used for working with CSV files in Python?			
Name the built-in function / method that is used to return the length of the object.			
Name the function/method required for			
(a) Finding second occurrence of m in madam .			Ans (a) index or find()
(b) Get the position of an item in the list			Ans (b) find() or index ()
Observe the following Python code and write the name(s) of the header file(s), which will be essentially required to run in a Python compiler.			
X=randint(1,3)			
Y=pow(X,3)			
print("hello".upper())			Ans random,math,string
Name the built-in mathematical function / method that is used to return square root of a number			
			Ans sqrt()
Name the Python library module(s) which needs to be imported to run the following program:			
print(sqrt(random.randint(1,16)))			Ans math,random
Which of the following function is used to write data in binary mode?			
a) write () b) output () c) dump () d) send ()			Ans (c) dump

String and List - I mark questions

<p>Identify the valid declaration of P: <code>P= ['Jan', 31, 'Feb', 28]</code> a) dictionary b) string c)tuple d) list</p> <p>Ans (d) list</p>	<p>Find the output – <code>>>>A = [17, 24, 15, 30]</code> <code>>>>A.insert(2, 33)</code> <code>>>>print (A [-4])</code></p> <p style="text-align: right;">Ans 24</p>
<p>Find the output of the following: <code>>>>Name = "Python Examination"</code> <code>>>>print (Name [: 8 : -1])</code></p> <p style="text-align: right;">Ans noitanima</p>	<p>Given the lists <code>Lst=['C','O','M','P','U','T','E','R']</code>, write the output of: <code>print(Lst[3:6])</code></p> <p style="text-align: right;">Ans PUT</p>
<p>What will be the output of following program: <code>a='hello'</code> <code>b='virat'</code> <code>for i in range(len(a)):</code> <code> print(a[i],b[i])</code></p> <p>Ans b v e i l r l a o t</p>	<p>Give Output: <code>colors=["violet", "indigo", "blue", "green", "yellow", "orange", "red"]</code> <code>del colors[4]</code> <code>colors.remove("blue")</code> <code>colors.pop(3)</code> <code>print(colors)</code></p> <p style="text-align: right;">Ans ['violet', 'indigo', 'green', 'red']</p>
<p>If the following code is executed, what will be the output of the following code? <code>name="Computer Science with Python"</code> <code>print(name[2:10])</code></p> <p style="text-align: right;">Ans mputer S</p>	<p>Given the list <code>Lst = [12, 34, 4, 56, 78, 22, 78, 89],</code> find the output of <code>print(Lst[1:6:2])</code></p> <p style="text-align: right;">Ans [34,56,22]</p>
<p>Give the output of the following code: <code>L = [1,2,3,4,5,6,7]</code> <code>B = L</code> <code>B[3:5] = 90,34</code> <code>print(L)</code></p> <p style="text-align: right;">Ans [1, 2, 3, 90, 34, 6, 7]</p>	<p>Write the output of the following python statements: <code>Array=[8,5,3,2,1,1]</code> <code>print(Array[-1:-6:-1])</code></p> <p style="text-align: right;">Ans 11235</p>
<p>Given the lists <code>L=[1,3,6,82,5,7,11,92]</code> , What will be the output of <code>print(L[2:5])</code></p> <p style="text-align: right;">Ans [6,82,5]</p>	<p>Given the lists <code>L=[H, T, W, P, N]</code> , write the output of <code>print(L[3:4])</code></p> <p style="text-align: right;">Ans [P]</p>
<p>Write the output of following code <code>t1 = [10, 12, 43, 39]</code> <code>print(t1*3)</code></p> <p>Ans [10, 12, 43, 39, 10, 12, 43, 39, 10, 12, 43, 39]</p>	<p>Given the lists <code>L=[1,3,6,82,5,7,11,92]</code> , write the output of <code>print(L[1:6])</code></p> <p style="text-align: right;">Ans [3,6,82,5,7]</p>
<p>Identify the valid declaration of L: <code>L = ['Mon', '23', 'hello', '60.5']</code> a). dictionary b). string c).tuple d). list</p> <p>Ans (d) list</p>	<p>If the following code is executed, what will be the output of the following code? <code>name="ComputerSciencewithPython"</code> <code>print(name[3:10])</code></p> <p style="text-align: right;">Ans puterSc</p>
<p>Which statement is not correct a) The statement <code>x = x + 10</code> is a valid statement</p>	<p>What will be the output of following code snippet: <code>msg = "Hello Friends"</code> <code>msg [:: -1]</code></p>

Is there any difference between 1 or '1' in python? Ans. Yes	Python does not support a character type.(T/F) Ans True. (Python supports string type)
<ul style="list-style-type: none"> • Write a code to create empty string 'str1' Ans. str1 = '' • What do you mean by traversing a string? Ans. Traversing a string means accessing all the elements of the string one by one by using index value. • What is the index value of first element of a string? Ans. 0 • What is the index value of last element of a string? Ans. -1 • If the length of the string is 10 then what would be the positive index value of last element? Ans. 9 • If the length of string is 9, what would be the index value of middle element? 9 Ans. 4 • Index value of a string can be in float. (T/F) Ans. False • What type of error is returned by following statement, if the length of string 'str1' is 10. print(str1[13]) Ans. Index error 	

Tuple: 1 mark Questions

A tuple is declared as t1=(1,2,3,3,5,6,5,6,7,3,8,9) what will be the value of print(t1.count(3)) Ans 3	Find the output from the following code: t=tuple() t=t+('Python',) print(t) print(len(t)) ans ('Python',) 1
Suppose a tuple T is declared as T = "Yellow", 20, "Red" a, b, c = T print(a) which of the following is correct? (a) ('Yellow', 20, 'Red') (b) TypeError (c) Yellow Ans (c)"Yellow"	Choose the correct way to access value 20 from the following tuple aTuple = ("Orange", [10, 20, 30], (5, 15, 25)) a) aTuple[1:2][1] b) aTuple[1:2](1) c) aTuple[1][1] Ans (c) aTuple[1][1]
Suppose a tuple T is declared as T = (10, 12, 43, 39), which of the following is Incorrect? a) print(T[1]) b) print(max(T)) c) print(len(T)) d) None of the above Ans (d)	Suppose a tuple T1 is declared as T1 = (10, 20, 30, 40, 50) which of the following is incorrect? a) print(T[1]) b) T[2] = -29 c) print(max(T)) d) print(len(T)) Ans (b)
Suppose a tuple T is declared as T = (10, 12, 43, 39), which of the following is incorrect? a) print(T[1]) b) T[3] = 9 c) print(max(T)) d) print(len(T))	Identify the data type of X: X = tuple(list((1,2,3,4,5))) a)Dictionary (b) string (c) tuple (d) list Ans tuple

<p>Ans (b) because tuple is immutable.</p> <p>A tuple is declared as T = (20,5,16,29,83) What will be the problem with the code T[1]=100. Ans It will show error tuple is immutable.</p>	<p>Suppose a tuple T is declared as T = (10, 20, 30, 40), what will be the output of print(T*2) Ans 20,40,60,80</p>
<p>t1=(2,3,4,5,6) print(t1.index(4)) output is a). 4 b). 5 c). 6 d). 2</p>	<p>What is the length of the tuple shown below? t=(((('a',1),'b','c'),'d',2),'e',3) Ans 3</p>
<p>A tuple is declared as T = (2,5,6,9,8) What will be the value of sum(T)?</p>	<p>Which of the following statements will create a tuple ? (a) Tp1 = ("a", "b") (b) Tp1= (3) * 3 (c) Tp1[2] = ("a", "b") (d) None of these Ans (a)</p>
<p>Find the output of the following: >>>S = 1, (2,3,4), 5, (6,7) >>> len(S)</p>	<p>Identify the valid declaration of Rec: Rec=(1,"Vikrant",50000) (i)List (ii)Tuple (iii)String (iv)Dictionary Ans (ii) Tuple</p>
<p>A tuple is declared as T = (1,2), (1,2,4), (5,3) What will be the value of min(T) ?</p>	<p>Consider the tuple in python named DAYS= ("SUN", "MON", "TUES") Identify the invalid statement(s) from the given below statements: a). S=DAYS[1] b). print(DAYS[2]) c). DAYS[0] = "WED" d). LIST=list(DAYS) Ans (c) DAYS[0] = "WED"</p>
<p>Suppose a tuple Tup is declared as Tup = (12, 15, 63, 80), which of the following is incorrect? a) print(Tup[1]) b) Tup[2] = 90 c) print(min(Tup)) d) print(len(Tup)) Ans (b) Tup[2]=90</p>	<p>What is the output of the following code: for i in range(-3,4,2): print(i, end = '\$') Ans -3\$-1\$ 1\$ 3\$</p>
<p>If a is (1, 2, 3), what is the difference (if any) between a*3 and [a, a, a]? Ans: a*3 is different from [a,a,a] because, a*3 will produce a tuple (1,2,3,1,2,3,1,2,3) and [a, a, a] will produce a list of tuples [(1,2,3),(1,2,3),(1,2,3)].</p>	<p>If a is (1, 2, 3), is a *3 equivalent to a + a+ a? Ans yes</p>
<p>Does a slice operator always produce a new Tuple? Ans: Yes</p>	<p>How is an empty Tuple created? Ans: T=() or T=tuple()</p>
<p>How is a tuple containing just one element created? Ans: T=3, or T=(4,)</p>	<p>What is the difference between (30) and (30,)? Ans: (30) is an integer while (30,) is a tuple</p>
<p>Predict the output G='a','b' H=('a','b') print(G==H)</p>	<p>Predict the output T=(1,)*3 T[0]=2 print(T) Ans typeError. Tuple is immutable so can't do changes</p>

<p>Find output (a,b,c)=(1,2,3) Ans this will assign 1 to a , 2 to b and 3 to c</p>	<p>Find output a,b,c,d=(1,2,3) Ans Error becoz not enough values to pack(expected 4, got 3)</p>
<p>Find output a, b, c, d, e = (p, q, r, s, t) = t1 Ans If tuple t1 has 5 values then this will assign first value of t1 in to a and p , next value to b and q and so on.</p>	<p>How can you add an extra element to a tuple? Ans T=T+(9,)</p>
<p>Which of the following will create a tuple x? (a) x = (1) (b). x = (1,) (c) .x = {1} (d) None of the above Ans (b)</p>	<p>What is the output of following line of code ? x=(2, 1, 4) print(len(x)) Ans 3</p>
<p>What is the output of following line of code? x,y, z = (3.3, 4.1, 2.2) print(x) Ans 3.3</p>	<p>What is the output of following line of code? x,_, z = (3.3, 4.1, 2.2) print(_) Ans 4.1</p>
<p>What is the output of following line of code ? _,_ = (3.3, 4.1, 2.2) print(_) Ans Error</p>	<p>What is the output of following line of code ? x = (3.3, 4.1, 2.2) *2 print(x) Ans (3.3, 4.1, 2.2, 3.3, 4.1, 2.2)</p>
<p>What is the output of following line of code? x = (3.3, 3.3, 4.1, 4.1, 2.2, 2.2) print(x.index(3.3)) Ans 0</p>	<p>What is the output of following line of code? x = (3.3, 3.3, 4.1, 4.1, 2.2, 2.2) print(x[0::2] == x[1::2]) Ans True</p>
<p>Which of the following method will not work with Python tuple object? a). sort() b). count() c). index() d). None of the above Ans (a)</p>	

Dictionary: 1 mark Questions

What will be the result of the following code? <pre>>>>d1 = {"abc" : 5, "def" : 6, "ghi" : 7} >>>print (d1[0])</pre> <p>(a) abc (b) 5 (c) {"abc":5} (d) Error</p>	Ans (d) Error
Which of the following statement create a dictionary? <p>a) d = {} b) d = {"john":40, "peter":45} c) d = (40 : "john", 45 : "peter") d) All of the above</p>	Ans (d) all of the above
Which statement is correct for dictionary? <p>(i) A dictionary is a ordered set of key:value pair (ii) each of the keys within a dictionary must be unique (iii) each of the values in the dictionary must be unique (iv) values in the dictionary are immutable</p>	
<p>Ans (ii) each of the keys within a dictionary must be unique</p>	

Ans (i) Day={1:'monday',2:'tuesday',3:'wednesday'}

Declare a dictionary in python named QUAD having Keys(1,2,3,4) and Values("India","USA","Japan","Australia")

Ans QUAD={1:"India", 2:"USA", 3:"Japan", 4:"Australia"}

Write a statement in Python to declare a dictionary whose keys are 1,2,3 and values are Apple, Mango and Banana respectively.

Ans Dict={1:'Apple', 2: 'Mango',3 : 'Banana'}

Given

```
employee={'salary':10000,'age':22,'name':'Mahesh'}  
employee.pop('age')  
what is output  
print(employee)
```

Ans {'salary':10000,'name':'Mahesh'}

Write the output of following code:

```
d={'amit':19,'vishal':20}  
print(d.keys())
```

Ans dict_keys(['amit', 'vishal'])

What will be output of following:

```
d = {1 : "SUM", 2 : "DIFF", 3 : "PROD"}
```

for i in d:

 print (i)

a) 1 2 3	b) SUM DIFF PROD	c) 1 SUM 2 DIFF 3 PROD	d) 3 SUM 3 DIFF 3 PROD
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Ans (a)

Write a statement in Python to declare a dictionary whose keys are 'Jan', 'Feb', 'Mar' and values are 31, 28 and 31 respectively.

Ans Month={'Jan':31,'Feb':28,'Mar':31}

Write a statement in Python to declare a dictionary whose keys are 5, 8, 10 and values are May, August and October respectively.

Ans Dict= {5:"May", 8: "August", 10: "October"}

Write a code to add the following key-value to a given dictionary.

```
A={'class':'VI', 'Sec':'B', 'Rollno':1}
```

Key	Value
Fee	Done
Route	AB

Ans

A["Fee"]="Done"

A["Route"]="AB"

Which of the following is the correct form of using dict()?

- a) dict([(a', 45), (b', 78)])
- b) dict({'a' : 45, 'b' :78})
- c) dict('a'=45, 'b'=78)
- d) All of these

Ans (d)

```
a={1:10,2:20,3:30}
```

(a) Write code to delete the second element using del command.

Ans del(a[2])

(b) Write code to delete the third element using pop() function.

Ans a.pop(3)

MySQL- 1 mark questions

Which command is used to change the number of columns in a table? Ans ALTER	Which keyword is used to select rows containing column that match a wildcard pattern? Ans LIKE
Differentiate between Degree and Cardinality. Ans Degree – it is the total number of columns in the table. Cardinality – it is the total number of tuples/Rows in the table.	All aggregate functions except _____ ignore null values in their input collection. a) Count (attribute) b) Count (*) c) Avg () d) Sum () Ans count(*)
Group functions can be applied to any numeric values, some text types and DATE values. (True/False) Ans True	Which command is used to change the existing information of table? Ans update
Expand the term: RDBMS Ans Relational Database Management System	Write an Aggregate function that is used in MySQL to find No. of Rows in the database Table Ans count(*)
For each attribute of a relation, there is a set of permitted values, called the of that attribute. a). Dictionaries b). Domain c). Directory d). Relation Ans (b) Domain	In SQL, write the query to display the list of databases stored in MySQL. Ans show databases
Which is not a constraint in SQL? a) Unique b) Distinct c) Primary key d) check Ans (b) Distinct	Which command is used to see the structure of the table/relation. a) view b) describe c) show d) select Ans (b) describe
A virtual table is called a Ans view	Which clause is used to remove the duplicating rows of the table? i) or ii) distinct iii) any iv)unique Ans (ii) distinct
Which clause is used in query to place the condition on groups in MySql? i) where ii) having iii) group by iv) none of the above Ans (ii) having	Which command is used for counting the number of rows in a database? i) row ii) count iii) rowcount iv) row_count Ans rowcount
A Resultset is an object that is returned when a cursor object is used to query a table. True/False Ans True	In SQL, name the clause that is used to place condition on groups Ans Having

<p>In SQL, which command is used to change the structure of already created table. Ans Alter table</p>	<p>Which operator performs pattern matching in SQL? Ans Like</p>
<p>What does the following function result into? count(field_name) Ans It returns the number of non-null records from the field.</p>	<p>In SQL, what are aggregate functions? Ans These functions work with data of multiple rows at a time and return a single value.</p>
<p>How many Primary and Foreign keys can a table have? Ans Primary Key – 1 Foreign Key – Many</p>	<p>In SQL, write the name of the aggregate function which is used to calculate & display the average of numeric values in an attribute of a relation. Ans AVG()</p>
<p>Write an SQL query to display all the attributes of a relation named “TEST” along with their description. Ans DESCRIBE TEST; or DESC TEST;</p>	<p>What is the use of LIKE keyword in SQL? Ans LIKE keyword is used to find matching CHAR values with WHERE clause.</p>
<p>Which of the following is NOT a DML command? a). SELECT b). DELETE c). UPDATE d). DROP Ans (d) DROP</p>	<p>What is the purpose of following SQL command: SHOW DATABASES; Ans This command will print name of all the databases present in RDBMS.</p>
<p>Identify the error in the following SQL query which is expected to delete all rows of a table TEMP without deleting its structure and write the correct one: DELETE TABLE TEMP; Ans DELETE FROM TEMP;</p>	<p>In SQL, name the command/clause that is used to display the rows in descending order of a column. Ans Order By Desc</p>
<p>In SQL, what is the error in following query : SELECT NAME, SAL, DESIGNATION WHERE DISCOUNT=NULL; Ans SELECT NAME,SAL,DESIGNATION WHERE DISCOUNT IS NULL;</p>	<p>Write any two aggregate functions used in SQL. Ans max(),min(),avg(),count()</p>
<p>Which of the following is a DML command? a) SELECT b) Update c) INSERT d) All Ans (d) All</p>	<p>In SQL, write the query to display the list of databases. Ans SHOW DATABASES'</p>
<p>Which of the following will suppress the entry of duplicate value in a column? a) Unique b) Distinct c) Primary Key d) NOT NULL Ans (b) Distinct</p>	<p>A non-key attribute, whose values are derived from primary key of some other table. a). Alternate Key b). Foreign Key c). Primary Key d). Candidate Key Ans (b) foreign Key</p>

<p>Identify the DDL Command. (i) Insert into command (ii) Create table command (iii) Drop table Command (iv) Delete command Ans (ii) Create table command (iii) Drop table Command</p>	<p>Which clause is used with a SELECT command in SQL to display the records in ascending order of an attribute? Ans Order by</p>
<p>A relation has 45 tuples & 5 attributes, what will be the Degree & Cardinality of that relation? a). Degree 5, Cardinality 45 b). Degree 45, Cardinality 5 c). Degree 50, Cardinality 45 d). Degree 50, Cardinality 2250 Ans (a) Degree 5, Cardinality 45</p>	<p>In SQL, which aggregate function is used to count all records of a table? Ans count(*)</p>
<p>Anita is executing sql query but not getting the appropriate output, help her to do the correction. Select name from teacher where subject=NULL; Ans Select name from teacher where subject is Null;</p>	<p>Sunita executes following two statements but got the variation in result 6 and 5 why? (i) select count(*) from user ; (ii) select count(name) from user ; Ans Count(*) will count rows where as count(name) will count name column only which is having one null value.</p>
<p>What is the difference between where and having in SQL. Ans Where is used apply condition in query, where as having is used only with group.</p>	<p>Write a command to add new column marks in table 'student' data type int. Ans Alter table student add marks int(3)</p>
<p>Write query to display the structure of table teacher. Ans describe teacher or desc teacher</p>	<p>In SQL, what is the use of BETWEEN operator? Ans The BETWEEN operator selects values within a given range</p>
<p>In SQL, name the clause that is used to display the tuples in ascending order of an attribute. Ans Orderby</p>	<p>In SQL, what is the use of IS NULL operator? Ans To check if the column has null value / no value</p>
<p>Write any one aggregate function used in SQL. Ans SUM / AVG / COUNT / MAX / MIN</p>	<p>Which of the following is a DDL command? a) SELECT b) ALTER c) INSERT d) UPDATE Ans (b) ALTER</p>
<p>In SQL, write the query to display the list of tables stored in a database Ans Show tables;</p>	<p>Which of the following types of table constraints will prevent the entry of duplicate rows? a) check b) Distinct c) Primary Key d) NULL Ans (c) Primary Key</p>

<p>Which is known as range operator in MySQL.</p> <p>a) IN b) BETWEEN c) IS d) DISTINCT</p> <p>Ans (b) BETWEEN</p>	<p>If column “salary” of table “EMP” contains the dataset {10000, 15000, 25000, 10000, 25000}, what will be the output of following SQL statement?</p> <p>SELECT SUM(DISTINCT SALARY) FROM EMP;</p> <p>a) 75000 b) 25000 c) 10000 d) 50000</p> <p>Ans (d) 50000</p>
<p>Which of the following functions is used to find the largest value from the given data in MySQL?</p> <p>a) MAX () b) MAXIMUM () c) LARGEST () d) BIG ()</p> <p>Ans (a) MAX()</p>	<p>Name the clause used in query to place the condition on groups in MySQL?</p> <p>Ans having</p>
<p>Write SQL statement to find total number of records in table EMP?</p> <p>Ans count(*)</p>	<p>Write command to list the available databases in MySQL.</p> <p>Ans show databases</p>
<p>In SQL, name of the keyword used to display unique values of an attribute.</p> <p>Ans DISTINCT</p>	<p>In SQL, what is the use of ORDER BY clause ?</p> <p>Ans To display the values in sorted order</p>
<p>Write the function used in SQL to display current date</p> <p>Ans curdate()</p>	<p>Which of the following is a DML command?</p> <p>a) CREATE b)ALTER c) INSERT d) DROP</p> <p>Ans (c) insert</p>
<p>In SQL, write the command / query to display the structure of table ‘emp’ stored in a database.</p> <p>Ans desc emp</p>	<p>Which of the following type of column constraints will allow the entry of unique and not null values in the column?</p> <p>a) Unique b) Distinct c) Primary Key d) NULL</p> <p>Ans (c) Primary Key</p>
<p>In SQL, name the clause that is used to display the unique values of an attribute of a table.</p> <p>Ans distinct</p>	<p>In SQL, what is the use of <> operator?</p> <p>Ans not equal to</p>
<p>Write any two aggregate function used in SQL</p> <p>Ans max/min/avg/sum/count(*)</p>	<p>Which of the following is/ are DML command(s)?</p> <p>a) SELECT b) ALTER c) DROP d) UPDATE</p> <p>Ans (a) select (d) update</p>
<p>In SQL, write the query to display the list databases.</p> <p>Ans show databases</p>	<p>Which of the following types of table constraints will not prevent NULL entries in a table?</p> <p>a) Unique b) Distinct c) Primary Key d) NOT NULL</p> <p>Ans (c) Primary Key</p>

<p>Rearrange the following transmission media in increasing order of data transfer rates.</p> <p>UTP CAT - 5 , UTP CAT – 6, IR, Bluetooth, OFC</p> <p>Ans IR, Bluetooth, UTP CAT - 5, UTP CAT – 6, OFC</p>	
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Networking – 1 mark Questions

<p>_____ is a network device that connects dissimilar networks.</p> <p>Ans Gateway</p>	<p>Give one example of each – Guided media and Unguided media</p> <p>Ans Guided – Twisted pair, Coaxial Cable, Optical Fiber (any one)</p> <p>Unguided – Radio waves, Satellite, Micro Waves (any one)</p>
<p>Ravi received a mail from IRS department on clicking “Click –Here”, he was taken to a site designed to imitate an official looking website, such as IRS.gov. He uploaded some important information on it</p> <p>Ans Phishing</p>	<p>_____ is a specific condition in a network when more data packets are coming to network device than they can handle and process at a time. Ans Network Congestion</p>
<p>Name the protocol that is used to transfer file from one computer to another.</p> <p>Ans FTP</p>	<p>Raj is a social worker, one day he noticed someone is writing insulting or demeaning comments on his post. What kind of Cybercrime Raj is facing?</p> <p>Ans Identity Theft</p>
<p>Name the Transmission media which consists of an inner copper core and a second conducting outer sheath.</p> <p>Ans Co-axial cable</p>	<p>Write the expanded form of GPRS?</p> <p>Ans General Packet Radio Service (GPRS)</p>
<p>Define Bandwidth?</p> <p>Ans a band of frequencies used for sending electronic signals</p>	<p>-----describe the maximum data transfer rate of a network or Internet connection.</p> <p>Ans Bandwidth</p>
<p>Mahesh wants to transfer data within a city at very high speed. Write the wired transmission medium and type of network.</p> <p>Ans Wired transmission medium – Optical fiber cable</p> <p>Type of network – MAN.</p>	<p>What is a Firewall in Computer Network?</p> <p>A). The physical boundary of Network</p> <p>B). An operating System of Computer Network</p> <p>C). A system designed to prevent unauthorized access</p> <p>D). A web browsing Software</p> <p>Ans</p> <p>C). A system designed to prevent unauthorized access.</p>

<p>Ans Telephone line, Twisted Pair Cable, Coaxial Cable, Fiber Optics</p>	
<p>State whether the following statements is True or False. When two entities are communicating and do not want a third party to listen, this situation is defined as secure communication. Ans True</p>	<p>Expand the term a). XML b). SMS Ans (a) XML-Extensible Markup Language (b) SMS—Short Messaging Service</p>
<p>Name two web scripting languages Ans VBScript, JavaScript, ASP, PHP, PERL and JSP</p>	<p>Which of these is not an example of unguided media? (i) Optical Fibre Cable (ii) Radio wave (iii) Bluetooth (iv) Satellite Ans Optical Fiber (guided media or wired media)</p>
<p>What is HTML? Ans HTML (Hyper Text Markup Language) is used to create Hypertext documents (web pages) for websites.</p>	<p>Name the protocol that is used to upload and download files on internet. Ans FTP or HTTP</p>
<p>Your friend kaushal complaints that somebody accessed his mobile device remotely and deleted the important files. Also he claims that the password of his social media accounts were changed. What crime was Manoj a victim of? Also classify the crime on basis of it's intent (malicious / non-malicious). Ans The gaining of unauthorized access to data in a system or computer is termed as hacking. It can be classified in two ways: (i) Ethical Hacking (ii) Cracking</p>	<p>Which is not a network topology? a) BUS b). STAR c). LAN d). RING Ans (c) LAN</p>
<p>Which of the following appears harmless but actually performs malicious functions such as deleting or damaging files. (a) WORM (b) Virus (c) Trojan Horse (d) Malware Ans (c) Trojan Horse</p>	<p>Name the protocol that is used to send emails. Ans SMTP</p>
<p>Your friend Ranjana complaints that somebody has created a fake profile on Facebook and defaming her character with abusive comments and pictures. Identify the type of cybercrime for these situations. Ans Cyber Stalking / Identity theft</p>	<p>Name The transmission media best suitable for connecting to hilly areas Ans microwave/radiowave</p>
<p>Write the expanded form of Wi-Fi. Ans Wireless-Fidelity</p>	<p>TCP/IP stands for- Ans Transmission Control Protocol/Internet Protocol</p>

<p>An attack that encrypts files in a computer and only gets decrypted after paying money to the attacker.</p> <p>a) Botnet b) Trojan</p> <p>c) Ransomware d) Spam</p> <p>Ans (c) Ransomware</p>	<p>Write the name of topology in which all the nodes are connected through a single Coaxial cable?</p> <p>Ans BUS topology</p>
<p>Write full form of VoIP.</p> <p>Ans voice over internet protocol</p>	<p>Expand the term DHCP.</p> <p>Ans Dynamic Host Configuration Protocol</p>
<p>Name the protocol that is used for the transfer of hypertext content over the web.</p> <p>Ans HTTP</p>	<p>In a Multi-National company Mr. A steals Mr. B's intellectual work and representing it as A's own work without citing the source of information, which kind of act this activity be termed as?</p> <p>Ans Plagiarism</p>
<p>Give at least two names for Guided and Unguided Transmission Media in networking.</p> <p>Ans Guided Media: Twisted pair Cable, Coaxial Cable , Fiber Optic Cable</p> <p>Unguided Media: Microwave / Radio wave , Infrared, Satellite</p>	<p>Write the expanded form of Wi-Fi and GSM</p> <p>Ans</p> <p>WiFi : Wireless Fidelity</p> <p>GSM : Global System for Mobile Communication</p>
<p>Rearrange the following terms in increasing order of data transfer rates.</p> <p>Gbps, Mbps, Tbps, Kbps, bps</p> <p>Ans bps, Kbps, Mbps, Gbps, Tbps</p>	<p>Name the protocol that is used to transfer files.</p> <p>Ans FTP</p>
<p>Your friend's mother receives an e-mail to access the additional services of bank at zero cost from some agency asking her to fill her bank details like credit card number and PIN in the form attached to the mail. Identify the type of cybercrime in this situation</p> <p>Ans phishing</p>	<p>Name the fastest available transmission media.</p> <p>Ans Optical Fibre cable(OFC)</p>
<p>Write the expanded form of LAN & MAN.</p> <p>Ans</p> <p>Local Area Network .</p> <p>Metropolitan Area Network</p>	