

Solution Sample Paper - 12

SECTION-A		
Q.1	Which of the following are in-valid operators in Python? (C) =+ (D) &&	1
Q.2	Which function is used to remove the given characters from trailing end i.e. right end of a string? (D) rstrip()	1
Q.3	Predict the output of following python code. SS="PYTHON" print(SS[:3:]) (B) PYT	1
Q.4	A Python List is declared as Stud_Name = ['Aditya', 'aman', 'Aditi','abhay'] What will be the value of min(Stud_Name)? (C) Aditi	1
Q.5	Choose the correct output of following code: Tup=(100) print(Tup*3) (B) (100,100,100)	1
Q.6	In a stack, if a user tries to remove an element from empty stack it is called _____ (A) Underflow	1
Q.7	Which method is used for object serialization in Python? (A) Pickling	1
Q.8	Which types of arguments/parameters supports by Python? (D) All of Above	1
Q.9	If a function in python does not have a return statement, which of the following does the function return? (C) None	1
Q.10	A _____ is a set of rules that governs data communication. (B) Protocol	1
Q.11	Select correct collection of DDL Command? (C) CREATE, DROP, ALTER, MODIFY	1
Q.12	Which statement is used to display the city names without repetition from table Exam? (B) SELECT DISTINCT(city) FROM Exam;	1
Q.13	Ronak want to show the list of movies which name end with 'No-1'. Select the correct query if table is MOVIE and field attribute is Movie_Name.	1

	SELECT Movie_Name FROM MOVIE WHERE Movie_Name LIKE ‘%No-1’;	
Q.14	Which Constraint not allow to enter repeated values in the table? (C) BOTH A and B	1
Q.15	COMMIT command is belongs to (C) TCL Command	1
Q.16	Which function is used to create a cursor in Python – SQL connectivity? (D) curse() function	1
Q17 and 18 are ASSERTION AND REASONING based questions. Mark the correct choice as (a) Both A and R are true and R is the correct explanation for A (b) Both A and R are true and R is not the correct explanation for A (c) A is True but R is False (d) A is false but R is True		
Q.17	(a)Both A and R are true and R is the correct explanation for A	1
Q.18	(c)’ A is True but R is False	1
SECTION-B		
Q.19	<p>A student has written a code to print a pattern of even numbers with equal intervals. His code is having errors. Rewrite the correct code and underline the corrections made.</p> <pre>def pattern(start, end, interval): # start can't Default parameter for n in range(start, end, interval): # parameters separate with comma if(n%2==0): # even number should divisible by 2 print(n) else: # colon are required for block pass</pre> <pre>x=int(input("Enter Start Number: ")) y=int(input("Enter End Number: ")) z=int(input("Enter Interval: ")) pattern(x, y, z)</pre>	2
Q.20	(A) 02-T (B) ["Tiger", "Peacock", "Tri-Color", "New Delhi"]	2
Q.21	Find and write the output of the following python code: 20000 # 100.0 100.0 \$ 200 2000 # 200.0 100.0 \$ 200.0	2
Q.22	Write full form on given abbreviation (i) URL :Uniform Resource Locator (ii) SMTP:. Simple Mail Transfer Protocol	2
Q.23	Explain the difference between webpage and website with examples of each. OR What is the difference between Packet Switching and Circuit Switching? (1 mark for each correct difference)	2
Q.24	What is the role of connect() and rowcount() methods in python. (1 mark for each correct difference)	2
Q.25	What is the importance of UNIQUE constraints in a table? Give a suitable example. (1 mark for correct explanation and 1 mark for example) OR	2

	Explain the terms degree and cardinality with example in reference to table. (1 mark for degree with example and 1 mark for other)	
	SECTION-C	2
Q.26	<pre>def count_words(): fp=("student.txt",'rt') data=fp.read() lst=data.split() word=0 for w in lst: if(w[0]=='S' and w[-1]=='R'): word+=1 print("Number of words found= ",word) count_words()</pre>	
Q.27	<pre>def how_many(list,elm): count=0 for n in list: if(n==elm): count+=1 if(count==0): print("Such element not found") else: print("Element found: ", count, " times") how_many([2,4,6,2,5,7,2,9,2],2)</pre>	3
Q.28	<pre>def PUSH_CITY(cities): ct=input("Enter city name: ") cities.append(ct) print("Successfully Added") print (cities) def POP_CITY(cities): if(cities==[]): print("Stack Underflow") else: cities.pop() print("Successfilly remevoed") cities=["Jammu","Chandigarh","Jaipur","Delhi"] PUSH_CITY(cities) POP_CITY(cities) OR def PUSH_VAL(val): stack=[] for n in val: if(n%2==1): stack.append(n) if(len(stack)==0): print("No any Odd Number found in List, hence Stack is Empty Stack!") else: print("Stack Elements are \n", stack) PUSH_VAL([10,44])</pre>	3

Q.29

**(A) SELECT TEACHER, SUBJECT, GENDER FROM SCHOOL , ADMIN
WHERE SCHOOL.CODE=ADMIN.CODE
AND
SCHOOL.EXPERIENCE<5 ;**

(B)

(i) Select Designation Count (*) From Admin

Group By Designation
Having Count (*) <2;

(ii) SELECT max (EXPERIENCE) FROM SCH-OOO;

(iii) SELECT TEACHER FROM SCHOOL WHERE EXPERIENCE >12 ORDER BY
TEACHER;

(iv) SELECT COUNT (*), GENDER FROM AD-MIN GROUP BY GENDER;

Answer- (A)

<u>TEACHER</u>	<u>SUBJECT</u>	<u>GENDER</u>
GAGAN	PHYSICS	MALE

(B)

(i.) Designation. Count(*)

VICE PRINCIPAL. 1

	<p>(ii.) Max(Experience)</p> <p>16</p> <p>(iii.) Teacher</p> <p>UMESH</p> <p>YASHRAJ</p> <p>(iv.) Count(*). Gender</p> <p>5. Male</p> <p>2 Female</p>	
Q.30	<p>Write the SQL command for the following on the basis of given table.</p> <p>½ mark for SELECT and ½ Mark for WHERE in each question</p>	3
SECTION-D		
Q.31	1 Mark for each correct answer	5
Q.32	<p>(A).</p> <p>output:</p> <p>***D-*U**P202</p> <p>(B)</p> <p>Statement 1: EmpCursor=con.cursor()</p> <p>Statement 2: EmpCursor("SELECT * FROM EMP WHERE Salary >50000")</p>	5

	Statement 3: EmpCursor.fetchall()	
Q.33	<p>(A) Write any two difference between text file and binary file?</p> <p>(B) import csv</p> <pre>def add_book(): f=open("library.csv",'w') name=input("Enter book name: ") price=float(input("Enter book price: ")) data=[name,price] wobj=csv.writer(f) wobj.writerow(data) f.close() def Show_book(): with open("library.csv",'r') as f: robj=csv.reader(f) for row in robj: if(float(row[1])>500): print(row) add_book() Show_book()</pre>	
	SECTION-E	
Q.34	<p>Lovepreet is a senior clerk in a MNC. He creates a table salary with a set of records to keep ready for tax calculation. After creation of the table, he has entered data of 5 employees in the table.</p> <p>Based on the data given above answer the following questions</p> <p>(i) Primary key: emp-id Degree: 7 Cardinality: 5</p> <p>(ii) ALTER TABLE EMPLOYEE DROP PRIMARY KEY ;</p> <p>(iii) UPDATE EMPLOYEE SET Hra=hra+(0.01*basic);</p> <p>(iv) SELECT emp_name, emp-desig from employee WHERE basic between 50000 and 80000</p>	4
Q.35		4
	<p>Statement 1: fopen=open("Sports.dat",'wb')</p> <p>Statement 2: pickle.dump(record,fopen)</p> <p>Statement 3: Rec=pickle.load(fopen)</p> <p>Statement 4: if (Rec[2]<100):</p>	