

केंद्रीय विद्यालय संगठन, अहमदाबाद संभाग

KENDRIYA VIDYALAYA SANGATHAN, AHMEDABAD REGION

कक्षा बारहवीं के लिए संभागीय स्तर द्वितीय परीक्षा 2024-25

REGIONAL LEVEL II COMMON MONTHLY TEST FOR CLASS XII 2024-25

SUBJECT: COMPUTER SCIENCE

CLASS: XII

M.M.: 50 MARKS

TIME: 120 MIN.

General Instructions:

The question paper contains 26 questions.

All questions are compulsory.

Marks of each question is mentioned on the right.

Programming language is Python/SQL.

In case of MCQ, text of the correct answer should also be written.

N	Question	M
1	<p>Predict the output.</p> <pre>for i in range(5): if i%3==0: pass print(i) else: continue</pre> <p>a. Error b. 0 c. 3 d. 0 1 2 3 4</p>	1
2	<p>Which of the following expression evaluates to True.</p> <p>a. $2 + (3 == 4) \oplus 5 == 7$ b. $2 + 3 == 4 + 5 == 7$ c. $(2 + 3 == 4 + 5) == 7$ d. $2 + 3 == (4 + 5 == 7)$</p>	1
3	<p>Which of the following identifier names are invalid?</p> <p>a. true b. finally c. none d. def</p>	1
4	<p>State whether true or false. "A function definition a non-default argument can follow default argument."</p>	1

— Solu (.)

5	<p>What will be the output of the following code?</p> <pre> a= 100 def add(): global a a = a//5 print(a) add() a=15 print(a) </pre> <p> <input checked="" type="radio"/> a. 20 <input type="radio"/> b. 100 <input type="radio"/> c. 20.0 <input checked="" type="radio"/> d. 20.0 </p>	1
6	<p>Which of the following dictionary declaration is not valid in Python.</p> <p> <input type="radio"/> a. D={'a':10,'b':20,'c':30} <input type="radio"/> b. D={None:10,'b':20,'c':30} <input type="radio"/> c. D={('a','b','c'):10,'b':20,'c':30} <input checked="" type="radio"/> d. D={['a','b','c']:10,'b':20,'c':30} </p>	1
7	<p>Stack data structure follows _____ principle.</p> <p> <input type="radio"/> a. First in last out <input type="radio"/> b. Last in first out <input type="radio"/> c. Only a <input checked="" type="radio"/> d. Both a and b </p>	1
8	<p>Predict the output.</p> <pre> S="SEPTEMBER MONTHLY TEST 2024" print(S[::-5]+S[::5]) </pre> <p> <input type="radio"/> a. 4 THMBP\$MMLS2 <input checked="" type="radio"/> b. 4 THMBPSERNYS0 <input checked="" type="radio"/> c. 4TYOBESERNYS0 <input checked="" type="radio"/> d. 4TYOBES\$MMLS2 </p>	1
9	<p>Which of the following statement is not correct?</p> <p> <input type="radio"/> a. We can read content from a text file opened using 'r' mode. <input type="radio"/> b. We can read content from a text file opened using 'r+' mode. <input type="radio"/> c. We can read content from a text file opened using 'w+' mode. <input checked="" type="radio"/> d. We can read content from a text file opened using 'w' mode. </p>	1
10	<p>State whether true or false.</p> <p>When we open a file for write operation, if the file does not exist, an error occurs.</p>	1
11	<p>The correct syntax for seek() is</p> <p> <input type="radio"/> a. file_object.seek(offset[,reference_point]) <input type="radio"/> b. seek(offset[,reference_point]) <input checked="" type="radio"/> c. file_object.seek(offset, file_object) <input checked="" type="radio"/> d. seek. file_object(offset[,reference_point]) </p>	1

12	An attribute which can uniquely identify tuples of the table but is not defined as primary key of the table is _____. a. Foreign Key b. Alternate Key c. Candidate Key d. Non-Key Attribute	1
13	Which of the following statement is not true about SQL table? a. An attribute defined as primary key cannot have NULL value. b. An attribute defined as UNIQUE cannot have NULL value. c. An attribute defined as primary key cannot have duplicate value. d. An attribute defined as UNIQUE cannot have duplicate value.	1
Q 14 and Q 15 are Assertion(A) and Reason(R) 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		
14	Assertion(A): The Python interpreter keeps track of the exact position where the error has occurred. Reason(R): Exception handling can be done for both user-defined and built-in exceptions.	1
15	Assertion(A): CSV is a file format for data storage which looks like a text file. Reason(R): The information is organized with one record on each line and each field is separated by comma.	1
16	Write SQL command to create a table named EXAM with following attributes. SCODE -An integer value and a primary key. SNAME -A variable length value of maximum 15 characters. MARKS -An integer value to store marks. DOE - A date value to store date of examination. Also write SQL command to display schema/structure of the above table.	2
17	Rewrite the following code after removing errors. def fun1(a=10,b): c=a+b if c>10: return c else c<=10: return c+5 a,b=20,30 print(fun(a,a))	2

18	<p>Write function definition in python that accepts a list L as argument and creates a new list L1 which stores those elements which are divisible by 7 from the list L.</p> <p>For example, if the contents of list L=[22,18,21,28,9,13,49] then contents of list L1 L1=[21,28,49]</p> <p style="text-align: center;">OR</p> <p>Write function definition in python that accepts a dictionary D that stores name as key and marks as values and prints names of student whose marks is greater than 75.</p>																													
19	<p>Observe the following table ITEM and write output of queries.</p> <p style="text-align: center;">ITEM</p> <table><tr><th>ITCODE</th><th>ITNAME</th><th>TYPE</th><th>PRICE</th></tr><tr><td>IT01</td><td>MONITOR</td><td>OUTPUT</td><td>20000</td></tr><tr><td>IT02</td><td>KEYBOARD</td><td>INPUT</td><td>500</td></tr><tr><td>IT03</td><td>MOUSE</td><td>INPUT</td><td>200</td></tr><tr><td>IT04</td><td>PRINTER</td><td>OUTPUT</td><td>18000</td></tr><tr><td>IT05</td><td>SCANNER</td><td>INPUT</td><td>12000</td></tr><tr><td>IT06</td><td>MIC</td><td>INPUT</td><td>300</td></tr></table> <p>a. SELECT TYPE, MIN(PRICE), MAX(PRICE) FROM ITEM GROUP BY TYPE; b. SELECT TYPE,COUNT(*) FROM ITEM GROUP BY TYPE; c. SELECT ITNAME FROM ITEM WHERE PRICE>=18000; d. SELECT ITNAME, PRICE FROM ITEM ORDER BY PRICE;</p>	ITCODE	ITNAME	TYPE	PRICE	IT01	MONITOR	OUTPUT	20000	IT02	KEYBOARD	INPUT	500	IT03	MOUSE	INPUT	200	IT04	PRINTER	OUTPUT	18000	IT05	SCANNER	INPUT	12000	IT06	MIC	INPUT	300	2
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20	Write a method to open a text file 'TEST.txt' in read mode and print those words which starts with character 'A'.	3																												
21	<p>What is exception? When are the following built-in exceptions raised? ImportError,IOError,NameError,ZeroDivisionError</p>	3																												
22	<p>A binary file "emp.dat" has structure [EID, Ename, designation, salary].</p> <p>a. Write a user defined function CreateEmp() to input data for a record and create a file emp.dat. b. Write a function display() in Python to display the detail of all employees whose salary is more than 50000.</p> <p style="text-align: center;">OR</p> <p>A binary file "Items.dat" has structure as [Code,Description,Price]</p> <p>a. Write a user defined function MakeFile() to input multiple items from the user and add to Items.dat b. Write a function SearchRec(Code) in Python which will accept the code as parameter and search and display the details of the corresponding code on screen from Items.dat.</p>	4																												
23	Observe the following table STUDENT and answer the questions.	4																												

STUDENT

ADMN	NAME	CLASS	SECTION	HOUSE
1001	MAHESH	12	A	RED
1002	REENA	12	B	GREEN
1003	KOMAL	11	A	BLUE
1004	NILESH	11	B	YELLOW
1005	ROHIT	10	A	RED
1006	MEENAKSHI	10	B	GREEN

- Which attribute is best suited to be chosen as primary key of above table.
- Write SQL command to add one more column CITY with appropriate data type.
- Write SQL command to change house of ROHIT to GREEN.
- Write SQL command to enter one more row in above table with appropriate values.

24 Observe the code given below and answer the questions that follow.

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```
import _____ #Statement-1
csvfh = open("Student.csv","w", newline=")
stuwriter = csv. _____ #Statement-2
data = []
header = ['ROLL_NO', 'NAME', 'CLASS', 'SECTION']
data.append(header)
for i in range(5):
    roll_no = int(input("Enter Roll Number : "))
    name = input("Enter Name : ")
    Class = input("Enter Class : ")
    section = input("Enter Section : ")
    rec = [_____] #Statement-3
    data.append(rec)
    stuwriter. _____ (data) #Statement-4
csvfh.close()
```

- Write the name of the module to be imported. Statement-1.
- Choose the function name (with argument) to complete Statement-2
- Identify the suitable code for inserting details of students in list. Statement-3.
- Choose the function name that should be used to create the desired CSV File. Statement-4

25 A list contains following record of a customer:

[Customer_name, Phone_number, City]

Write the following user defined functions to perform given operations on the stack named 'status':

- Push_element() - To Push an object containing name and Phone number of customers who live in Goa to the stack
- Pop_element() - To Pop the objects from the stack and display them. Also, display "Stack Empty" when there are

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no elements in the stack.
 For example: If the lists of customer details are:
 ["Gurdas", "9999999999", "Goa"]
 ["Julee", "8888888888", "Mumbai"]
 ["Murugan", "7777777777", "Cochin"]
 ["Ashmit", "1010101010", "Goa"]

The stack should contain

["Ashmit", "1010101010"]
 ["Gurdas", "9999999999"]

The output should be:

["Ashmit", "1010101010"]
 ["Gurdas", "9999999999"]
 Stack Empty

26 Consider the following table employee and answer the questions that follows.

EMPLOYEE

ECODE	ENAME	DEPT	SALARY	CITY
E101	AMITA	SALES	50000	Delhi
E102	NIRMAL	ACCOUNTS	55000	Mumbai
E103	MITALI	MEDIA	65000	Pune
E104	ROHAN	SALES	52300	Agra
E105	JONES	MEDIA	64200	NULL

- Write SQL command to display all the details of employees whose name contains A as second last character.
- Write SQL command to display different department names.
- Write SQL command to display all the details of employees from SALES department or working in Delhi.
- Write SQL command to display names of employees whose salary is between 50000 to 60000(Both values inclusive)
- Write SQL command to display names of employees whose city is not known.
