



Date:19/02/2023 GRADE: XI	ANNUAL EXAMINATION-2023-24 INFORMATICS PRACTICES(065)	Max marks:70 Time: 3 Hour
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General Instructions:

1. This question paper contains five sections, Section A to E.
2. All questions are compulsory.
3. Section A have 18 questions carrying 01 mark each.
4. Section B has 07 Very Short Answer type questions carrying 02 marks each.
5. Section C has 05 Short Answer type questions carrying 03 marks each.
6. Section D has 03 Long Answer type questions carrying 05 marks each.
7. Section E has 02 questions carrying 04 marks each. One internal choice is given in Q35 against part c only.

Qn.No	SECTION A	Marks
1.	State True or False <code>print("monday"=="Monday")</code>	1
2.	When power is switched off and data which is not saved is lost forever, such type of memory is classified as: a) Volatile b) Non-Volatile c) Impact d) Non-Impact	1
3.	What will be the output of the following python list operation? <code>data=["Priya","Suresh","Megha","Anujith","Elder"]</code> <code>print(len(data))</code> a) 6 b) 5 c) 3 d) 4	1
4.	Identifier name can not be composed of special characters other than a) # b)\$ c) - d) _	1
5.	A relational database consist of a collection of..... a) Tables b) Fields c) Records d) Keys	1
6.	The Of the CPU controls or supervises the processing taking place. a) ALU b) MU c) CU d) None of these	1
7.	Which of the SQL command is used to modify an existing data in a table? a) Alter b) Update c) Select d) Drop	1
8.	_____command is used to remove the litem from the list.	1

	a) remove() b)pop() c)del d)popitem()	
9.	_____ refers to the ability of machines to perform cognitive task likeTo print the value of a variable, python uses: a) Print statement b) Print() function c) print statement d) print() function	1
10.	What type of error is this? Num=25;Num2=0;Num1/Num2 a) Syntax error b) Run time error c) Logic error d) none of these	1
11.	You don't have to pay for Python and you can view its source code too. It means Python is..... a) shareware b)Freeware c) Open source d) Free and open source	1
12.	Special meaning words of pythons, fixed for specific functionality are called..... a) Identifier b) Functions c) Keywords d) literals	1
13.	SQL stands for	1
14.	The symbol Tripple Quotation (' ' ') is used for _____ a) Multiline commending b) Single line commending c)Both a and b d) None of the mentioned	1
15.	Which of the following is an escape sequence for a newline character? a) \a b) \t c) \n d) \b	1
16.	A Boolean out put refers..... a) True b) False c) Both a and b d) None of this	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		
17.	Assertion: Logical errors occurs when the logic is not specified properly. Reason: If the logical error occurs program gives wrong output.	1
18.	Assertion: Items in dictionaries are unordered. Reason: You may not get back the data in the same order in which you had entered the data initially in the dictionary.	1
<p align="center">SECTION B</p>		

19.	<p>Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code.</p> <pre> a=8 a=a+2 if(a=8) print("value of a is eight') else: print("the value of a is not eight") </pre>	2																																								
20.	<p>a) What will be the output of the following string operation?</p> <pre> l=[0,2,5,1] st=7 for i in l: st=st+1 print(st) </pre> <p style="text-align: center;">OR</p> <p>b) Write the output of the following code.</p> <pre> L=['a','b','c','d'] print(L) L[1]='X' L[3]='Z' print(L) </pre>	2																																								
21.	<p>Answer the following questions based on the given table:</p> <p style="text-align: center;">Table: Department</p> <table border="1" data-bbox="186 1207 1253 1549"> <thead> <tr> <th>ID</th> <th>NAME</th> <th>AGE</th> <th>DEPT</th> <th>SALARY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Smitha</td> <td>32</td> <td>Maths</td> <td>20000.00</td> </tr> <tr> <td>2</td> <td>Jainy</td> <td>25</td> <td>English</td> <td>15000.00</td> </tr> <tr> <td>3</td> <td>Jisha</td> <td>23</td> <td>Chemistry</td> <td>20000.00</td> </tr> <tr> <td>4</td> <td>Madhu</td> <td>25</td> <td>Physics</td> <td>65000.00</td> </tr> <tr> <td>5</td> <td>Hridhika</td> <td>27</td> <td>Computer science</td> <td>85000.00</td> </tr> <tr> <td>6</td> <td>Revathy</td> <td>22</td> <td>Computer science</td> <td>45000.00</td> </tr> <tr> <td>7</td> <td>Anuvintha</td> <td>24</td> <td>Maths</td> <td>10000.00</td> </tr> </tbody> </table> <p>i. Identify the primary key in the above table? ii. Display all items from the table iii. What is the degree and cardinality of the above table iv. Display Name and Salary from the above table?</p>	ID	NAME	AGE	DEPT	SALARY	1	Smitha	32	Maths	20000.00	2	Jainy	25	English	15000.00	3	Jisha	23	Chemistry	20000.00	4	Madhu	25	Physics	65000.00	5	Hridhika	27	Computer science	85000.00	6	Revathy	22	Computer science	45000.00	7	Anuvintha	24	Maths	10000.00	2
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22.	Write a program to swap two numbers without using third variable.	2																																								
23.	<p>a) IDLE stands for.....</p> <p>b) DBMS stands for.....</p>	2																																								

24.	<p>a) Predict the output</p> <pre>for i in range(1,5): print(i,end="") if (i==3): break</pre> <p style="text-align: center;">OR</p> <p>b) Predict the output</p> <pre>L1=[5,8,9,12] L2=[5,8,9,12] L3=[5,15,9,12] print(L1==L2) print(L2==L3) print(L1!=L2) print(L3!=L2) print(L1<L2) print(L2>L3)</pre>	2
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25.	What is the difference between interpreter and compiler?	2
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SECTION C

26.	<p>Write a python program to find the grade of a student.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Marks</th> <th>Grade</th> </tr> </thead> <tbody> <tr> <td>Above 90</td> <td>A</td> </tr> <tr> <td>80 to 90</td> <td>B</td> </tr> <tr> <td>70 to 79</td> <td>C</td> </tr> <tr> <td>60 to 69</td> <td>D</td> </tr> <tr> <td>Below 60</td> <td>Failed</td> </tr> </tbody> </table>	Marks	Grade	Above 90	A	80 to 90	B	70 to 79	C	60 to 69	D	Below 60	Failed	3
Marks	Grade													
Above 90	A													
80 to 90	B													
70 to 79	C													
60 to 69	D													
Below 60	Failed													

27.	<p>a) Write a python program to accept three numbers and print largest of the three. Make use of if, else and elif</p> <p style="text-align: center;">OR</p> <p>b) Create a dictionary named Dic1 with keys are 101,102,103,104, 105 and values are Priya, Madhav, Maya, Steev and Elvis. Print the dictionary first then delete 104 from Dic1 again print the Dic1 must use del method.</p>	3
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28.	Explain the use of operators and how many operators in python with an example program.(Use any three or more operators)	3
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29.	<p>Observe the following table and answer the following questions.</p> <p style="text-align: center;">Table : Item</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Item_code</th> <th>Item</th> <th>Quantity</th> <th>Rate</th> </tr> </thead> <tbody> <tr> <td>101</td> <td>Shampoo</td> <td>1150</td> <td>250</td> </tr> <tr> <td>102</td> <td>Conditioner</td> <td>1500</td> <td>300</td> </tr> <tr> <td>103</td> <td>Shower gel</td> <td>1600</td> <td>180</td> </tr> <tr> <td>104</td> <td>Detergent</td> <td>1600</td> <td>193</td> </tr> <tr> <td>105</td> <td>Soap</td> <td>800</td> <td>20</td> </tr> </tbody> </table> <p>i) Write SQL commands to insert a record in the stock table with the values: (106,'Liquid Soap',1200,188)</p> <p>ii) Write the output of the following SQL query.</p> <p>a. Select Item, Quantity from stock where item_code=103;</p> <p>b. Write the query for display the full details of the item Soap.</p>	Item_code	Item	Quantity	Rate	101	Shampoo	1150	250	102	Conditioner	1500	300	103	Shower gel	1600	180	104	Detergent	1600	193	105	Soap	800	20	3
Item_code	Item	Quantity	Rate																							
101	Shampoo	1150	250																							
102	Conditioner	1500	300																							
103	Shower gel	1600	180																							
104	Detergent	1600	193																							
105	Soap	800	20																							
30.	<p>Consider the list L=['I','N','F','O','R','M','A','T','I','C','P','R','A','C','T','I','C','E','S'] and predict the output.</p> <p>a. print(L[:10:2])</p> <p>b. print(L[::2])</p> <p>c. print(L[2::3])</p> <p>d. print(L[::])</p> <p>e. print(L[1::-1])</p> <p>f. print(L[1:-1:-2])</p>	3																								
SECTION D																										
31.	<p>a) Create a database "MNC" and open it for creating table.</p> <p>b) Create a table "STAFF" with the following considerations: It should have a column StaffID (should be primary key)for storing an integer value between 1and 9, which refers to unique identification of Staff. Each StaffID should have its associated name(SName) which should be a string of length not less than 20 characters. Salary is the another field and it should be integer data type.</p> <p>c) Show the structure of the table TEAM using SQL command.</p> <p>d) As per the preferences of the Company, Insert these four rows in STAFF table. Row 1: (111, Sarang,25000) Row 2: (112 , Priyanka,22000) Row 3: (113, Mahesh,21000) Row 4: (114 , Taniya, 31500)</p> <p>e) Display the table TEAM.</p>	5																								

32. Answer the following questions based on the given table: write SQL query for the question i to iii and find output for the given SQL query from iv and v.

5

Table : **Employee**

Emp_no	Name	Bonus	Department	YOE	Dcode	Age
1	Anuroop	550	Accounting	5	A1	21
2	Madhav	300	Clerk	9	C1	27
3	Jineesh	300	Sales	6	S1	32
4	Dildhar	450	HR	5	H0	29
5	Vignesh	300	PRO	6	P1	46
6	Sarang	400	Production	6	P2	34

- i) Select Name and Bonus of the employees whose age is more than 30.
- ii) List the department and year of experience (YOE) of Vignesh
- iii) List the name and age of the employees whose bonus is 300 and whose year of experience is 6.
- iv) `SELECT NAME AND Emp_no FROM Employee WHERE Dcode =P1;`
- v) `SELECT * FROM Employee WHERE YOE=6;`

33. i. What is the output of the following code snippet?

3+2

a. `country="INDIA"`
`for i in country:`
`print(i)`

b. `for i in range (10,6,-2):`
`print(i*2)`

c. `for x in range (10,20):`
`if (x%2==0):`
`continue`
`print(x)`

d. Write a python program to print the multiplication table of a number read from user.

SECTION E

34. Consider the following dictionary StateCapital:
Months={"Jan": "January", "Feb": "February", "Mar": "March", "Apr": "April"}
Find the output of the following statements:
a) print(Months.get("Feb"))
b) print(Months.keys())
c) print(len(Months))
d) del Months["Jan"]
print(Months)

4

a. Consider the table Staff and write SQL query for the question i and iii and find output for the given SQL query of iv.

4

ID	NAME	AGE	DEPT	SALARY
1	Smitha	32	Maths	20000.00
2	Jainy	25	English	15000.00
3	Jisha	23	Chemistry	20000.00
4	Madhu	25	Physics	65000.00
5	Hridhika	27	Computer science	85000.00
6	Revathy	22	Computer science	45000.00
7	Anuvinta	24	Maths	10000.00

- i. List the name and department those who are in computer science.
- ii. Update the salary of Hridhika from 85000.00 to 87000.
- iii. Add one more column named location with the data type varchar(25) to the existing table.
- iv. SELECT NAME DEPT, SALARY FROM STAFF WHERE AGE > 25 AND SALARY = 23000;

OR

b) Explain computer system organization with diagram.

*****END*****

