

## Date:08/12/2023 GRADE: XI

## ANNUAL EXAMINATION-2023-24

**INFORMATICS PRACTICES(065)** 

Max marks:70 Time: 3 Hour

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 inQ35 against part c only.

Qn.No	SECTION A	Marks
1.	State True or False "Python is a cross platform and case sensitive language."	1
2.	Identify the valid variable name.a) stud_nob) stud numc) 1studnumd) stud-num	1
3.	What will be the output of the following python list operation? data =[10,20,30,40,20,60,70] print(count(20)) a) [20] b) 2 c) 3 d) [10,20,30,40,70]	1
4.	Keys of a dictionary must be a)Similar b)Unique c) Odd numbers d)Even numbers	1
5.	Which SQL command used to open a database.a) openb) createc)selectd) use	1
6.	To create an empty list we use . a)   =[] b)  ="" c)  =[1,2] d)  =()	1
7.	Which of the SQL command is used to add a new column in a table? a) Alter b) Update c) Select d) Drop	1
8.	command is used to remove the last item from the list. a)remove() b)pop() c)del d)popitem()	1
	refers to the ability of machines to perform cognitive task like thinking ,perceiving,learning,problem solving and decision making. a)Artificial Intelligence b) Virtual Reality c)Cloud computing d)NLP	1
	What is the value of an expression 100/25 . a) 4 b) 4.0 c) 2.5 d) none of these	1

11.	Which of the following is not a component of SQL? 1 a) DDL b) DML c) DQL d ) ADL	1
12.	Which of the following attributes can be considered as choice for a primary key? a) Name b) Street c) Roll_No d) Subject	1
13.	SQL stands for	1
14.	The symbol Asterisk (*) in a select query retrieves (i) All data from the table (ii) Data of primary key only (iii) NULL data (iv) None of the mentioned	1
15.	The SQL statements ends with a), b): c); d)"	1
16.	<ul> <li>Shiv wants to see the table structure in MySQL. Select an appropriate command to help him.</li> <li>a) use b) show c) desc d) display</li> </ul>	1
	ad 18 are ASSERTION AND REASONING based questions. Mark the correct choice as	
	h A and R are true and R is the correct explanation for A	
• •	th A and R are true and R is not the correct explanation for A	
• •	True but R is False s false but R is True	
<u>17.</u>	Assertion (A): Python is a case sensitive language .	1
17.	Reasoning (R): In python the errors only show up at run time.	-
18.	Assertion (A) : In a relation, a primary key is one of the candidate keys.	1
-	Reason (R) : An Alternate key is same as primary key.	
	SECTION B	
19.	Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code. Num = 20 for i in range(1,Num,3) if i%2==0: print(i*2) Else print(i*3)	2
20.	<ul> <li>a) What will be the output of the following string operation? list=['H','E','L','O','@','P','Y','T','H','O','N'] print(list[2:10:2])</li> <li>OR</li> <li>b) Write the output of the following code. data = [1,2,4,5] for x in data: print(x)</li> </ul>	2

21.	Answer the foll	owing questi	ons based on	the given tab	le:	2
			Table	: student		
	Admno	Name	Subject	Sex	Average	
	1001	Amit	Math	М	85.5	
	1002	Susan	English	F	90	
	i. Identify the pr ii. Display all iter iii. What is the d	ms from the t	able.	le?		
	iv. What is the c	•				2
22.	What are the fea			ning.		2
23.		Artificial Inte BigData	elligence			2
24.	a) Write a pytho	on program to	print the larg	est among ty	wo numbers.	2
	b)Write a pytho	n program to	-	10.20.30.40]	,and add element 50 into the list.	
25.	Identify the DD	• -		-, -, -, -]	,	2
	INSERT , UPDAT	E, CREATE , A	LTER, DROP ,	DELETE		
			SE	CTION C		
26.	What is meant	by primary k	key and candid	late key, Expl	lain with an example.	3
27.	a) What are tol	kens? With th	ne help of a py	thon prograr OR	m, explain the tokens.	3
	b)What are mu	table and im	mutable data	types? Give s	suitable examples in Python.	
28.	a) What is a dict	ionary? Writ	e a statement	in Python to	declare a dictionary named month	3
	whose keys are	Jan, Feb, Ma	r and values a	re 31, 28, 30	respectively.	
	b) find output :					
	x = 3 if x == 0:					
	_	n I learning p	ython?", end	= ' ')		
	elif x == 3:	01	, ,	,		
	print("Or else :	learning pyth	on?", end = '	')		
		· learning pyt	hon 4 cbse?")			
		• • •	, oftware")			

		Table : Stoc			
	Item_code	Item	Quantity	Rate	
	10	Gel Pen Classic	1150	25	
	11	Sharpener	1500	10	
	12	Ball Pen 0.5	1600	12	
	13	Eraser	1600	5	
	i) Write SQL c	Ball Peen 0.25	800	20	
	values: (1 ii) Write the out Select item f	6,'Pensil HB',1200,8) put of the following SQ com stock where item_co ery for displaying the de	L query. ode=13;		
30.	lf x=['L','a','n','g',	'u','a','g','e'].			3
	y=['l','s'] Find a) print(x[1:6:2]) d) print(x+y)	b) print(x[-3:]) e)print(y*2)	c) print(x f)print(x)		
		SECTIO	ON D		
31.	class 11 and 12 .All th BigGamers, Team Mag matches are to be he following: a) Create a datab b) Create a table " i) It should hav 9, which refe ii) Each TeamIE a string of le iii)Give the stat	e students are divided gnet and Team Current eld between these tear ase "sports" and open it TEAM" with the following e a column TeamID for se ers to unique identification o should have its association of the not less than 10 ch ement to make TeamII	into four teams- . During the su ms. Help your sp for creating tabl ng considerations storing an intiger on of a team. ated name( Team aracters. D as the primary	s: value between 1and Name) which shouldbe v key.	
	d) As per the pref	ir rows in TEAM table. am Rockstars) m BigGamers)	-	d. e formed as given below.	
		ma Cuurrant)			
	Row 4: ( 4 <i>,</i> Tea	m current)			

Table : StudnamestipendstreamAnu400.00MedicaManu350.00Comme	mark	grade cla	ass
	78.5		
Manu 350.00 Comme		A   11	1A
	erce 90	A1 12	2A
Jinu 300.00 Comme	erce 88.9	A1 12	2B
Dinu 450.00 Human	ities 56.8	D 12	2C
Vinu 250.00 Nonme	dical 68.9	B 11	1A
Sunu 450.00 Comme	erce 67.9	B 11	1A
a=2 b=3 a,b=b+5,b-1 print(a,b)			
a=[1,2,3] print(a*3)			
SECTION	IE		
}	a","Maharashtra"	:"Mmbai","Raj	jasthan
utput of the following statements:			
al={"Assam":"Guwahati","B	ihar":"Patna ements:	ihar":"Patna","Maharashtra" ements:	ihar":"Patna","Maharashtra":"Mmbai","Ra

		Table	: GRADUATE		
SNAME	STIPEND	STREAM	AVGMRK	GRADE	CLASS
Karan	400	Medical	78	В	12A
Divakar	500	Comm	89	A	11C
Mohan	800	Comm	56	D	12B
Aman	200	Science	99	Α	12C
Kewat	700	Humani	77	С	12A
Raghav	300	Science	90	A	11A
Vikas	600	Medical	84	В	11B
<b>b.</b> Displ	ay the details	of all student	s who have c	btained gra	ide A.
ii) Display t more than iii) SELECT	he details of s	students who DUATE WHER	have opted s	science with	

\*\*\*END\*\*\*