केन्द्रीय विद्यालय संगठन, कोलकाता संभाग KENDRIYA VIDYALAYA SANGATHAN, KOLKATA REGION सत्र समाप्ति परीक्षा/ SESSION END EXAMINATION – 2022-23

कक्षा / CLASS – XI

FOR PRACTICE

अधिकतम अंक/MAX. MARKS –70

समय/TIME-03 /Hours

विषय/SUB.- INFORMATICS PRACTICES (065)

General Instructions:

- 1. This question paper contains five sections, Section A to E.
- 2. All questions are compulsory.
- 3. Section A has 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 Q34 & Q35 against **part iii** only.
- 8. All programming questions are to be answered using Python Language only.

	SECTION – A	
1.	Which of the following is NOT TRUE?	1
	(a) The startup program stored in a ROM	
	(b) Hard Disk is Secondary Memory	
	(c) RAM is Non Volatile	
	(d) Solid-State Drives are Secondary Storage Devices	
2.	introduced the concept of stored program computer which was	1
	capable of storing data as well as program in the memory.	
	(a) Charles Babbage	
	(b) John Von Neumann	
	(c) Alan Turing	
	(d) Herman Hollerith	
3.	What is the need for secondary memory?	1
	(a) To speed up the operations of the CPU	
	(b) To permanently store the data or instructions for future use	
	(c) Program and data are loaded into it before processing.	
	(d) To store the startup program (boot loader)	
4.	Which of the following is not an application Software?	1
	(a) Adobe Reader	
	(b) Microsoft Edge	
	(c) Microsoft Word	
	(d) Ubuntu	
5.	Which of the following is NOT a Data Capturing device?	1
	(a) Barcode Reader	
	(b) Smart card readers	
	(c) Fingerprint scanners	
	(d) Graphics tablet	
6.	Which of the following is a valid identifier?	1
	(C) _ZMY FIIE	
	(d) True	

7.	The following is an example of sequence data type?	1
	(a) Integer	
	(b) String	
	(c) Dictionary	
	(d) Float	
8.	Num1, Num2=10,0	1
	Num1/Num2 is an example of	
	(a) Syntax error	
	(b) Runtime error	
	(c) Logical error	
	(d) Type error	
9.	Which of the following statements create a dictionary?	1
	(a) d={}	
	(b) d={"John":40,'Peter':45}	
	(c) d=dict()	
	(d) All of the above	
10.	What is the output of the below Python code?	1
	a=[1,2,3,'A',None,(),[],{},[10,20]]	
	print(len(a))	
	(a) 8	
	(b) 9	
	(c) 7	
	(d) Error	
11.	Which of the following is/are correct statement(s) about primary key of a table?	1
	(a) Primary key can contain NULL values	
	(b) Primary keys cannot contain NULL values	
	(c) A table can have only one primary key with single or multiple fields	
	(d) A table can have multiple primary keys with single or multiple fields	
12.	What will be the output of following query?	1
	INSERT INTO student	
	VALUES ("Suhana",109,'F'),	
	VALUES ("Rivaan",102,'M'),	
	VALUES ("Atharv",103,'M'),	
	VALUES ("Rishika",105,'F'),	
	VALUES ("Shaurya",109,'M');	
	(a) Error	
	(b) No Error	
	(c) Depends on compiler	
	(d) Successful completion of the query	
13.	Which of the following is not a valid data type in SQL?	1
	(a) char(n)	
	(b) string(n)	
	(c) varchar(n)	
14.	What is true about the following SQL statement?	1
	Seleci * fRUM student;	
	(a) Usplays contents of table student	
	(b) Usplays column names and contents of table "student"	
	(c) Results in error as improper case has been used (d) Diaplaya any the column normal of table (student)	
	ן (u) שוקומע only the column names of table student	1

1		
15.	What is cloud computing?	1
	(a) A network of computers and printers available within an Organization.	
	(b) A type of internet based computing that provides shared computer processing	
	resources and data to computers and other devices on demand.	
	(c) A process of scheduling computer programs to work autonomously	
	(d) Storage on data on conversithat is accessible by all members of organization	
	(d) storage on data on servers that is accessible by all members of organization.	
16.	Which are not the potential application of block chain?	1
	(a) Voting	
	(b) Health record	
	(b) Andre gaming	
	(c) Online ganning	
	(d) Fund transfer	
	Q17 and 18 are ASSERTION AND REASONING based questions. Mark the correct choice as	
	i. Both A and R are true and R is the correct explanation for A	
	ii. Both A and R are true and R is not the correct explanation for A	
	iii. A is True but R is False	
	iv. A is false but R is True	
17.	Assertion(A): Candidate Key can serve as a primary key in a table.	1
	Reason (R): Candidate Key is always unique and should not hold Null value	
18.	Assertion(A): Dictionary keys are mutable	1
	Reason (R): When duplicate keys are encountered, the last key value pair is taken	
-	SECTION B	
19	(i) 3 7 GB = Bytes	2
15.	$(i) 5.7 \text{ GD} = \ \text{Dytes}$	2
	OR	
	OR Identify the category (system, application, programming tool) of the following software:	
	OR Identify the category (system, application, programming tool) of the following software:	
	OR Identify the category (system, application, programming tool) of the following software: (a) Compiler (b) Assembler	
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	OR Identify the category (system, application, programming tool) of the following software: (a) Compiler (b) Assembler (c) Python	
	OR Identify the category (system, application, programming tool) of the following software: (a) Compiler (b) Assembler (c) Python (d) Tally	
20.	OR Identify the category (system, application, programming tool) of the following software: (a) Compiler (b) Assembler (c) Python (d) Tally Give the output of the following:	2
20.	OR Identify the category (system, application, programming tool) of the following software: (a) Compiler (b) Assembler (c) Python (d) Tally Give the output of the following: (i) print(5 % 10 + 10 < 50 and 29 <= 29)	2
20.	OR Identify the category (system, application, programming tool) of the following software: (a) Compiler (b) Assembler (c) Python (d) Tally Give the output of the following: (i) print(5 % 10 + 10 < 50 and 29 <= 29) (ii) num1**=num2+num3	2
20.	OR Identify the category (system, application, programming tool) of the following software: (a) Compiler (b) Assembler (c) Python (d) Tally Give the output of the following: (i) print(5 % 10 + 10 < 50 and 29 <= 29) (ii) num1**=num2+num3 (When num1=4, num2=3, num3=2)	2
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20.	OR Identify the category (system, application, programming tool) of the following software: (a) Compiler (b) Assembler (c) Python (d) Tally Give the output of the following: (i) print(5 % 10 + 10 < 50 and 29 <= 29)	2
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23.	What will be the	outputs of the	following progran	n if we input v	alue of day is : (i)	5 <i>,</i> (ii) 8	2
	day=	int(input("Ente	r the day in numb	oer"))			
	if (da	ıy==1):					
	p	orint("MON")					
	if (da	ıy==2):					
	p	orint("TUE")					
	if (da	ıy==3):					
	p	orint("WED")					
	if (da	ay>=4 and day<	=7):				
	р	rint("OTHER");					
	else:						
	р	rint("INVALID")					
			OR				
	A dictionary is giv	ven as:					
	Student={'Aman'	:75, 'Raman':89	9, 'Nisha':90}				
	Write the statem	ents to do the f	following:				
	(i) To mo	odify the marks	of 'Aman' from 7	5 to 78			
	(ii) To dis	play the marks	of 'Nisha'				
24.	A student table h	as 6 rows and 3	columns. 2 more	columns are	added and 2 rows	are deleted.	2
	What is the degree	ee and cardinal	ity of the final tab	le?			-
25.	Given the followi	ng Data types a	ind constraints fo	r the attribute	es of relation STUD	DENT:	2
		Data avrag		Data Tura	Construction	1	
	Attribute Name	Data expec	ted to be stored	Data Type	Constraint	-	
	Rolino	Numeric va	ilue consisting	INT	Primary Key		
	Newse	of maximu	m 3 digits				
	Name	variant ien	gin string of	VARCHAR	NOT NULL		
	DOP			DATE			
	Attend Date	Date Value		DATE			
	Attend Status	(D' for proc	opt and (A' for				
	Attenu_status	ahsent			NOT NOLL		
	Write SOL comm	and to Create t	he above table.]	
			SECTION	IC			
26.	Write down the t	ype of memory	needed to do th	e following:			3
	(a) To store data	permanently		-			
	(b) To execute th	e program					
	(c) To store the ir	nstructions which	ch cannot be over	written.			
27.	Write the output	for the following	ng SQL queries as	per given tab	le:		3
	·		Table: Emp	loyee	1		
	EmpNo	Ename	Salary	Bonus	DeptId		
	101	Aaliya	20000	250	D02		
	102	Vergese	60000	695	D01		
	106	Sanya	48000	550	D02		
	109	Joseph	42000	NULL	D04		
	110	Tanya	50000	475	D05		
	(i) SELECT * FROI	M EMPLOYEE V	/HERE Ename LIK	e '_anya';			
	(ii) SELECT Ename	e FROM EMPLO	YEE WHERE Enam	ne LIKE '%se%	·. ,		
	(iii) SELECT Empn	o, Ename, Salai	ry+Bonus as "Tota	al Salary" from	NEMPLOYEE WHE	RE EMPNO	
	IN(109,110);						

28.	If Government plans to make a smart school by applying IoT concepts, how can each of the	3
	following be implemented in order to transform a school into IoT (Internet of Things) enabled	
	smart school? (Any Three)	
	a) e-textbooks	
	b) Smart boards	
	c) Online tests	
	d) Wifi sensors on classrooms doors	
	e) Sensors in buses to monitor their location	
	f) Wearables (watches or smart belts) for attendance monitoring	
29.	Consider a list: list1 = [6,7,8,9]	3
	What is the difference between the following operations on list1:	
	(a) list1*2	
	(b) list1*=2	
	(c) list1=list1*2	
	OR	
	Consider a list: a=[1,2,3]	
	(a) Is a*3 is equivalent to a+a+a?	
	(b) What's the difference between a[1:2] and a[1:1]?	
	(c) What is the meaning of a[1:1]=9?	
30.	Write a program to read a list of n integers (positive as well as negative). Create two new lists,	3
	one having all positive numbers and the other having all negative numbers from the given list.	
	Print all three lists.	
	OR	
	Write a program to read a list of n numbers and display the smallest and second largest	
	number of the list.	
	SECTION D	
31.	The record of a student (Name, Roll No, Marks in five subjects, percentage of marks and	5
	sports grade) is stored in the following list:	
	stRecord = ['Raman', 'A-36', [56,98,99,72,69], 78.8, 'A']	
	Write Python statements to do the following in the list stRecord.	
	a) To retrieve the Marks in the fifth subject.	
	b) Minimum marks of the student.	
	c) To delete the Roll No. of the student.	
	d) Change the name of the student from 'Raman' to 'Ragnay'.	
	e) To insert another grade 'B' for subject painting at the end of the list.	
	OR	
	Write a program to input your friend's names and their phone numbers and store them in	
	the dictionary as the key value pair. Perform the following operations on the dictionary	
	the dictionary as the key-value pair. Perform the following operations on the dictionary.	
	a) Display the Name and Phone humber for an your menus.	
	b) Add a new key-value pair in this dictionary and display the modified dictionary.	
	d) Modify the phone number of an existing friend	
	a) Check if a friend is present in the dictionary or not	
22	Consider the following table named "GVM" with details about Fitness products being	5
32.	Consider the following table named "GYM" with details about Fitness products being sold in the store	5
32.	Consider the following table named "GYM" with details about Fitness products being sold in the store. Table Name : GYM	5
32.	Consider the following table named "GYM" with details about Fitness products being sold in the store. Table Name : GYM PrCode stores Codes of Products	5
32.	Consider the following table named "GYM" with details about Fitness products being sold in the store. Table Name : GYM	5

		I	able: GYM				
PrCode	Ρ	Name	UnitPrice	1	Manufacturer		
P101	С	ross Trainer	25000	4	Avon Fitness		
P102	T	readMill	32000	4	AG Fitline		
P103	N	lassage Chair	20000	F	Fit Express		
P104	V	ibration Train	er 22000	4	Avon Fitness		
P105	В	ike	13000	F	it Express		
Write SQL statements for (i) to (iii) and outputs for (iv) and (v) based on the table GYM:							
(i) Display (ii) Display manufactu (iii) Display (iv) SELECT Manufactu (v) SELECT	the Names of al the details of a rer 'Fit Express' details of all th PrCode, PrNan rer='Fit Express Prname, UnitPr	I the products II the products ie products wi ne, UnitPrice f s'; rice, Manufact	in the store. s with unit price le th unit price in th rom GYM WHERE turer FROM GYM	ess than Rs.200 e range 20000 Manufacturer WHERE PrNam)00 for the to 30000. '='AG Fitline' OR he LIKE '%e' AND		
Manufactu	rer="Fit Expres	s";					
Consider th	ne following tak	le MOVIE and	answer the SQL	queries based	on it.	5	
MarialD	MariaNlavaa	Catagoria	Table : Movie	Duaduatian			
	Noviename	<u>Category</u>	ReleaseDate	ProductionC	OST BUSINESSO	ost	
001	Tamil Movie	Action	2016-04-05	1124500	118000		
002	English Movie	Horror	2010-03-17	245000	360000		
004	Bengali Movi	e Adventure	2017-01-04	72000	100000		
005	Telugu Movie	Action	-	100000	-		
006	Punjabi Movi	e Comedy	-	30500	-		
(i) List (ii) Find Bus Net	the different ca d the net profit sinessCost – Prc tProfit.	ategories of m of each movie iductionCost),	iovies. e showing its ID, N Make sure that t	Jame and Net I he new columr	Profit (Net Profit 1 name is labelled	=	
(iii) List shc (iv) List (v) List Write SQL	all movies with wing ID, Name all movies which the movies wh OR commands for t	n ProductionC and Productio ch fall in the c ich have not k the following o	ost greater than & onCost. ategory of Comec been released yet queries (i) to (v) b able : Teacher	30,000 and less dy or Action. ased on the re	than 1,25,000 lation Teacher:	d as	
(iii) List shc (iv) List (v) List Write SQL	all movies with wing ID, Name all movies which the movies wh OR commands for ID Ename	n ProductionC and Productio ch fall in the c ich have not k the following T Age Departm	ost greater than & onCost. ategory of Comec been released yet queries (i) to (v) b `able : Teacher <u>nent Date_of</u>	30,000 and less by or Action. - - - - - - - - - - - - - - - - - - -	than 1,25,000 lation Teacher:	d as	
(iii) List shc (iv) List (v) List Write SQL	all movies with wing ID, Name all movies which the movies which the movies wh OR commands for the ID Ename	n ProductionC and Productio ch fall in the c ich have not k the following o T Age Departn 34 Comput	ost greater than & onCost. ategory of Comec been released yet queries (i) to (v) b `able : Teacher <u>nent Date_of</u> er Sc 10/01/	30,000 and less dy or Action. ased on the re Join Salary 2017 1200	than 1,25,000 lation Teacher:	d as	
(iii) List shc (iv) List (v) List Write SQL	all movies with wing ID, Name all movies which the movies which the movies which OR commands for the ID Ename O1 Jugal O2 Sharmila	n ProductionC and Production ch fall in the c ich have not k the following o T Age Departn 34 Comput 31 History	ost greater than & onCost. ategory of Comec peen released yet queries (i) to (v) b `able : Teacher <u>nent Date_of</u> <u>er Sc 10/01/ 24/03/</u>	30,000 and less by or Action. based on the re <u>Join Salary</u> 2017 1200 2008 2000	than 1,25,000 lation Teacher:	d as	
(iii) List shc (iv) List (v) List Write SQL	all movies with wing ID, Name all movies which the movies which on and the movies where OR commands for ID Ename O1 Jugal O2 Sharmila O3 Sandeep	n ProductionC and Production ch fall in the c ich have not k the following T Age Departn 34 Comput 31 History 32 Mathem	ost greater than & onCost. ategory of Comec been released yet queries (i) to (v) b Table : Teacher nent Date_of er Sc 10/01/ 24/03/ natics 12/12/	30,000 and less by or Action. based on the re <u>Join Salary</u> 2017 1200 2008 2000 2016 3000	than 1,25,000 lation Teacher: Gender O M O F O M	d as	
(iii) List shc (iv) List (v) List Write SQL	all movies with wing ID, Name all movies which the movies which the movies which OR commands for <u>ID Ename</u> 01 Jugal 02 Sharmila 03 Sandeep 04 Sangeeta	n ProductionC and Production ch fall in the c ich have not k the following T Age Departn 34 Comput 31 History 32 Mathem 35 History	ost greater than & onCost. ategory of Comec peen released yet queries (i) to (v) b `able : Teacher nent Date_of er Sc 10/01/ 24/03/ natics 12/12/ 01/07/	30,000 and less by or Action. based on the re 2017 1200 2008 2000 2016 3000 2015 4000	than 1,25,000 lation Teacher: <u>Gender</u> 0 M 0 F 0 M 0 F	d as	
(iii) List shc (iv) List (v) List Write SQL	all movies with wing ID, Name all movies whith the movies whith the movies whith OR commands for ID Ename O1 Jugal O2 Sharmila O3 Sandeep O4 Sangeeta O5 Rakesh	n ProductionC and Production ch fall in the c ich have not k the following T Age Departn 34 Comput 31 History 32 Mathem 35 History 42 Mathem	ost greater than & onCost. ategory of Comec been released yet queries (i) to (v) b Table : Teacher nent Date_of er Sc 10/01/ 24/03/ natics 12/12/ 01/07/ natics 05/09/	30,000 and less by or Action. 	than 1,25,000 lation Teacher: G M 0 F 0 M 0 F 0 M	d as	
(iii) List shc (iv) List (v) List Write SQL	all movies with wing ID, Name all movies whith the movies whith the movies whith OR commands for 01 Jugal 02 Sharmila 03 Sandeep 04 Sangeeta 05 Rakesh 06 Shyam	n ProductionC and Production ch fall in the c ich have not k the following T Age Departn 34 Comput 31 History 32 Mathem 35 History 42 Mathem 50 History	ost greater than & onCost. ategory of Comec been released yet queries (i) to (v) b Table : Teacher nent Date_of er Sc 10/01/ 24/03/ natics 12/12/ 01/07/ natics 05/09/ 27/06/	30,000 and less by or Action. based on the re 2017 1200 2008 2000 2016 3000 2015 4000 2007 2500 2008 3000	than 1,25,000 lation Teacher: <u>Gender</u> 0 M 0 F 0 M 0 F 0 M 0 F 0 M	d as	
(iii) List shc (iv) List (v) List Write SQL	all movies with wing ID, Name all movies whith the movies whith the movies whith the movies whith OR commands for 01 Jugal 02 Sharmila 03 Sandeep 04 Sangeeta 05 Rakesh 06 Shyam 07 Shiv Om	n ProductionC and Production ch fall in the c ich have not k the following T Age Departn 34 Comput 31 History 32 Mathem 35 History 42 Mathem 50 History 44 Comput	ost greater than & onCost. ategory of Comec peen released yet queries (i) to (v) b Table : Teacher nent Date_of er Sc 10/01/ 24/03/ natics 12/12/ 01/07/ natics 05/09/ 27/06/ er Sc 25/02/	30,000 and less by or Action. based on the re 2017 1200 2008 2000 2016 3000 2015 4000 2007 2500 2008 3000 2017 2100	than 1,25,000 lation Teacher: <u>Gender</u> 0 M 0 F 0 M 0 F 0 M 0 F 0 M 0 F 0 M 0 F 0 M	d as	

(i)	To list the names of f	omala taachars of	Mathomatics de	nartmont					
(1) (ii)	To list the names of a	ll malo toachors w	ho got solory m	partment.					
(iii) To display teacher's name, salary, age for male teachers only									
(iii) To display leacher's name, salary, age for male leachers only (iv) To display name, bonus for each teacher where bonus is 10% of salary									
(v) Insert a new record in the above table with the following values:									
(-)	'T09'. 'Aiav'. 35. '(Computer Sc'.'12/1	L0/2017'.'M'						
		SECTION	E						
Table: Supplier									
Supplier	rID SupplierName	ItemName	Quanti	cy City					
S001	Britannia	Marie Biscuit	100	Bangaluru					
S002	Monginis	Fruit Cake	250	Kolkata					
S003	Nestle	Chocolate	150	New Delhi					
S004	Biskfarm	Digestive Biscui	t 200	Kolkata					
S005	Amul	Butter	200	Mumbai					
From the	above supplier table ar	nswer the followin	g:						
(i) Write	a query to display the ci	ity names without	repetition.						
(ii) Write	a query to display the c	letails of suppliers	whose names s	tart with 'B'.					
(iii) Write	a query to display the	Supplier Name, Ite	em Name, City a	nd Annual Quantity	which				
is calcula	ted as quantity*12 for t	the suppliers Brita	nnia and Nestle.						
	OR (Option for part iii only)								
Different	iate between DDL and [DML with suitable	example of each	l.					
Write th	e output of the querie	s (i) and (ii) based	d on the table,	Furniture and answe	er for				
question (iii) given below:									
		TABLE: FURNI	TURE						
FID	NAME	DATEOFPUR	CHASE COST	DISCOUNT					
B001	DOUBLE BED	2018-01-03	45000) 10					
T010	DINING TABLE	2020-03-10	51000) 5					
B004	SINGLE BED	2021-06-19	22000	0					
C003	LONG BACK CHAIR	2016-12-30	12000) 3					
T006	CONSOLE TABLE	2019-11-17	15000) 12					
B006	BUNK BED	2021-01-01	28000) 14					
(i) SELECT DATEOFPURCHASE FROM FURNITURE WHERE NAME IN ("Dining Table", "Console									
Table"):									
(ii) SELEC	T * FROM FURNITURF V	WHERE DISCOUNT:	>5 AND FID LIKF	"T%":					
(iii) What	is a Foreign Kev? What	is its significance i	in a table?	,					
(, ••••••••									
	OR (Option for part iii	only)							
	OR (Option for part iii	only) Table: STUD	ENT						
Roll No	OR (Option for part iii	only) Table: STUD Class	ENT Section R	egistration ID					
Roll No	OR (Option for part iii Name Mohan	only) Table: STUD Class XI	ENT Section Re	egistration_ID -101-15					
Roll No 11 12	OR (Option for part iii Name Mohan Sohan	only) Table: STUD Class XI XI	ENT Section Re A IP B IP	egistration_ID -101-15 -104-15					
Roll No 11 12 21	OR (Option for part iii Name Mohan Sohan John	Table: STUD Class XI XI XI	ENT Section Re A IP B IP	egistration_ID -101-15 -104-15 5-103-14					
Roll No 11 12 21 22	OR (Option for part iii Name Mohan Sohan John Meena	only) Table: STUD Class XI XI XI XII	ENT Section Re A IP B IP A CC	egistration_ID -101-15 -104-15 S-103-14 S-101-14					

In the above table answer the following:

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(i) Can a user assign duplicate value to the field RollNo of STUDENT table? Justify.

В

CS-101-10

XII

(ii) Is there any alternate key in table STUDENT? Give justification for your answer.
