A.I.S.S.C.E.(PRACTICAL EXAMINATION – 2020-2021)

SUBJECT : INFORMATICS PRACTICES (065) NEW

CLASS: XII | DATE: /0 /2021

TIME: 3 Hr | MAX.MARKS: 30

Q.1) a) Write a python program to create a Series using list. 5

b) Write a program to plot y= x^2 using the pyplot or matplotlib libraries. 3

Q.2) SQL

S.No	Name	Age	Department	Charges	Gender
1	Arprit	62	Surgery	300	M
2	Zarina	22	ENT	250	F
3	Kareem	32	Orthopaedic	200	M
4	Arun	12	Surgery	300	M

1) Create a table patient 2

2) Insert above records in table. 2

3) To display Total no. of patients present in the Hospital 1

4) To display all information about the patients of Surgery department. 1

5) To display name and gender of all the patients whose age is in the range of 20 to 50 in ascending order of their name. 1

Q.3) Practical file 5

Q.4) Project Work 5

Q.5) Project viva voce 5

Slip 1

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Q.1) a) Write a python program to create a Dataframe using dictionary. 5

b) Write a python program to plot y=sin(x) using the pyplot or matplotlib libraries 3

Q.2) SQL

Table: CLUB

C_Id	CoachName	Age	Sports	DateofApp	Pay	Sex	No_Players
1	KUKREJA	35	KARATE	2012-03-27	1000	M	20
2	RAVINA	34	KARATE	2008-01-20	1200	F	15
3	KARAN	34	SQUASH	2009-02-19	2000	M	2
4	TARUN	33	BASKETBALL	2012-01-01	1500	M	16

1) Create a table CLUB 2

2) Insert above records in table. 2

3) To show all information about the karate coaches in the club. 1

4) To show all information of the CLUB which coach name start with “K”. 1

5) To display a report, showing coach name, pay, age and bonus (15% of Pay) for all the coaches. 1

Q.3) Practical file 5

Q.4) Project Work 5

Q.5) Project viva voce 5

Slip 2

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Q.1) a) Write a python program to create two dataframes and demonstrate usage of following functions. 5

- Add
- Sub
- mul
- div

b) Write a python program to plot y = e^x using the pyplot or matplotlib libraries.3

Q.2) SQL

The Database name is VIDYALAYA

Consider the following table STUDENT.

NO	NAME	AGE	DEPARTMENT	FEE	SEX
1	PANKAJ	24	COMPUTER	120	M
2	SHALINI	21	HISTORY	200	F
3	SANJAY	22	HINDI	300	M
4	SUDHA	25	HISTORY	400	F

1) Create a table 2

2) Insert above records in table. 2

3) Display name and age of male students 1

4) display all details of students in descending order of name 1

5) Display total of fee of all students 1

Q.3) Practical file 5

Q.4) Project Work 5

Q.5) Project viva voce 5

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Q.1) a) Write a python program to create a Series and demonstrate sorting of Series in ascending and descending order. 4

b) Write a python program to generate a bar chart for the following information 4

Country	Population
India	130
China	140
USA	33
Indonesia	22
Bangladesh	16

- The bar Chart should have different Colours for each Country
- There Should be proper labels for X and Y axis
- The Title of the chart should be 'World Population'

Q.2) SQL

Table: CLUB

C_Id	CoachName	Age	Sports	DateofApp	Pay	Sex	No_Players
1	KUKREJA	35	KARATE	2012-03-27	1000	M	20
2	RAVINA	34	KARATE	2008-01-20	1200	F	15
3	KARAN	34	SQUASH	2009-02-19	2000	M	2
4	TARUN	33	BASKETBALL	2012-01-01	1500	M	16

1) Create table 2

2) Insert above records in table 2

3) To display highest age of coach, lowest pay of coach form table club. 1

4) To show distinct names of the games available in club. 1

5) To list the names of all coaches with their date of appointment (DateofApp) in descending order. 1

Q.3) Practical file 5

Q.4) Project Work 5

Q.5) Project viva voce 5

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Q.1) a) Write a python program to create a Series and demonstrate sorting of Series in ascending and descending order. 4

b) Write a python program to generate a bar chart for the following information about the marks received by students. 4

Country	Income
USA	1000
Canada	800
UK	1200
China	700
Japan	900

- The bar Chart should have different Colours for each Country
- There Should be proper labels for X and Y axis
- The Title of the chart should be 'World Income'

Q.2) SQL

The Database name is VIDYALAYA

Consider the following table STUDENT.

NO	NAME	AGE	DEPARTMENT	FEE	SEX
1	PANKAJ	24	COMPUTER	120	M
2	SHALINI	21	HISTORY	200	F
3	SANJAY	22	HINDI	300	M
4	SUDHA	25	HISTORY	400	F

1) Create a table 2

2) Insert above records in table. 2

3) Display name and age of male students 1

4) display all details of students in descending order of name 1

5) Display total of fee of all students 1

Q.3) Practical file 5

Q.4) Project Work 5

Q.5) Project viva voce 5

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Q.1) a) Write a python program to create a Dataframe using dictionary. 5

b) Write a Python Program to Plot a line chart for equation Y=2X+5 3

where x=[-5,-4,. 4,5]

Q.2) SQL

Table : SchoolBus

Rtno	Area_covered	Capacity	Noofstudents	Distance	Transporter	Charges
1	Vasant kunj	100	120	10	Shivam travels	100000
2	Hauz Khas	80	80	10	Anand travels	85000
3	Pitampura	60	55	30	Anand travels	60000
4	Rohini	100	90	35	Anand travels	100000

1) Create table 2

2) Insert above records in table 2

3) To show all the bus routes number where the distance is less than 30. 1

4) To show the maximum capacity of a bus 1

5) To show the area whose names end with ‘j’ in decreasing order of the area covered. 1

Q.3) Practical file 5

Q.4) Project Work 5

Q.5) Project viva voce 5