

AISSCE PRACTICAL EXAMINATION 2020-21
INFORMATICS PRACTICES (NEW)

Subject Code: 065

Time : 3 Hours

Maximum Marks: 30

Q1. Problem Solving using PYTHON

[5 + 3 = 8]

a) Write the code to create the series 'serObj' and answer the questions followed. **(5)**

Jan 31
Feb 28
Mar 31
Apr 30

- i) Write the command to add one row: 'May' – 31
- ii) Write the command to update Feb to 29
- iii) Write the command to change index to 1,2,3,4,5 in place of Jan, Feb, Mar, Apr and May.
- iv) Write a command to print a month name having number of days less than 31.
- v) Write the output:
 - (a) print(serObj < 30)
 - (b) print(serObj + 3)

b) Write a Python program to display a BAR CHART of the number of students in a school. **(3)**

- (i) Use different colors for each bar.
- (ii) Title for x axis should be 'Groups' and title for y axis should be 'Number of Students'
- (iii) Ensure the title of chart is "Group wise Students" and grid line must be shown.

Sample data: Group: I, II, III, IV and Strength: 38, 30, 45, 49

Q2 SQL Queries:

[2+5=7]

RxID	DrugID	drugname	price	PharmacyName	loc
R1000	5476	AMLODIPINE	100.00	RxPHARMACY	BEAS
R1001	2345	PARACETAMOL	10.75	RAJPHARMACY	UNA
R1002	1236	NEBISTAR	60.50	MYCHEMIST	SOLAN
R1003	6512	VITAPLUS	150.50	MYCHEMIST	GURGAON
R1004	5631	COVISHIELD	1050.50	OXFORD	PUNE

- a) Create a table DRUGDB with the fields given in below table and assuming data type of your own.
- b) Consider the table DRUGDB. Write the SQL commands for queries given below:
 - (i) To increase the price of "Paracetamol" by 35.
 - (ii) To display the drugid, Rxid and pharmacy name of all records in descending order of their price.
 - (iii) Display all the details of the drugs where name starts with 'C' and has 'sh' somewhere in the name.
 - (iv) Display the drug name in lower case along with price rounded off to nearest interger.
 - (v) Delete the field name loc from drugdb table.

Q3 Practical Records

[5]

Q4 Project Work

[5]

Q5 Viva voce

[5]

External Examiner

Internal Examiner

Name : _____

Name : _____

Sign : _____

Sign : _____

Examiner No: _____

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Q1. Problem Solving using PYTHON

[5 + 3 = 8]

a) Write the code to create a DataFrame 'df' and answer the questions followed.

(5)

	Col1	Col2	Col3
T1	100.0	100.0	60.0
T2	95.8	100.0	57.48
T3	NaN	100.0	53.58
T4	82.0	85.4	49.20

- i) Write a command to add one column Total = col1+col2+col3
- ii) Write a command to add one row T5 with values 75.6, 98.6, 56.0
- iii) Write a command to change the column names **Col1 to Maths, Col2 to Science, Col3 to SST.**
- iv) Write a command to print Score of Maths and Science only.
- v) Write a command to update a value of T3 Row and Col1 / update NaN to 85.0

b) Write a Python program to display the given Result using a BAR CHART

(3)

	Maths	Science	SST
Amit	100	100.0	60.0
Mohan	95	100.0	57.48
Sudha	85	100.0	53.58

Q2 SQL Queries:

[7]

Table : Infant

ItemCode	Item	DatePurchase	UnitPrice	Discount
101	Frock	2016-01-23	700	10
102	Cot	2015-09-23	5000	25
103	Soft Toy	2016-06-17	800	10
104	Baby Socks	2014-10-16	100	7
105	Baby Suit	2015-09-20	500	5

Note : Discount column stores discount %.

Write the commands in SQL for (i) to (vi) and output for (vii) and (viii).

- (i) To list the names of items and their unit price that have unit price less than 800 and discount more than 5%.
- (ii) To display the number of items that have more than 10% as discount.
- (iii) To display item code and unit price in decreasing order of unit price.
- (iv) To increase the unit price of each item by 10% of their unit price.
- (v) To display the highest unit price of items.
- (vi) To display the names of items that have 'Baby' anywhere in their item names.

Find Output :

(vii) SELECT MID (Item,1,2) FROM Infant;

(viii) SELECT AVG(UnitPrice) FROM Infant WHERE DATEPURCHASE '2015-01-01';

Q3 Practical Records

[5]

Q4 Project Work

[5]

Q5 Viva voce

[5]