

SAMPLE PAPER-IV SEE CLASS – XI INFORMATICS PRACTICES

SUBJECT: INFORMATICS PRACTICES 2018-19

CLASS XI

1 a	Explain <u>Mobile Operating System</u> ?Give Examples.	2
b	Describe a computer system .	2
c	What is difference between primary memory and secondary memory.	2
d	Explain the functions of the CU and ALU in the CPU of a computer.	2
e	What are the key features of Python?	2
f	Write ouptput of following a. What is the output of print str if str = 'Hello World!' b. What is the output of print str[0] if str = 'Hello World!' c. What is the output of print str[2:5] if str = 'Hello World!' d. What is the output of print str[2:] if str = 'Hello World!'?	2
g	What is the difference between tuples and lists in Python?Give Example	2
h	How will you create a dictionary in python?	2
i	What is the purpose of following operators **,// , is, not in	2
j	What is the purpose break statement in python?	2
i	Find the largest and smallest numbers in a list.	4
k	1. Find output of following a. for x in range(5): print(x) b. for x in range(3, 6): print(x) c. for x in range(3, 8, 2): print(x) d. count = 0 while count < 5: print(count) count += 1 e. count = 0 while True: print(count) count += 1 if count >= 5: break f. for x in range(10): if x % 2 == 0: continue print(x)	6

2 a.	What is Pandas/Python Pandas?	1												
b	What can I import from NumPy?	1												
c	Write a program to locate the 3 largest values in a data frame.	3												
d	Write output of following code: <pre>import pandas as pd my_series=pd.Series([1,2,2.5,'ajay',56.5]) print(my_series.head()) print(my_series.head(2))</pre>	2												
e	Write python statements to create a data frame for the following data. <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Name</th> <th>Age</th> <th>Designation</th> </tr> </thead> <tbody> <tr> <td>RAJIV</td> <td>20</td> <td>CLERK</td> </tr> <tr> <td>SAMEER</td> <td>35</td> <td>MANAGER</td> </tr> <tr> <td>KAPIL</td> <td>45</td> <td>ACCOUNTANT</td> </tr> </tbody> </table>	Name	Age	Designation	RAJIV	20	CLERK	SAMEER	35	MANAGER	KAPIL	45	ACCOUNTANT	2
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f	1. Write the purpose of following functions of dataframe df. a. df.shape() b. df.head() c. df[2:5] d. df[:]	2												
g	Write a python program to sort the following data according to age in ascending order. <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Name</th> <th>Age</th> <th>Designation</th> </tr> </thead> <tbody> <tr> <td>RAJIV</td> <td>20</td> <td>CLERK</td> </tr> <tr> <td>SAMEER</td> <td>35</td> <td>MANAGER</td> </tr> <tr> <td>KAPIL</td> <td>45</td> <td>ACCOUNTANT</td> </tr> </tbody> </table>	Name	Age	Designation	RAJIV	20	CLERK	SAMEER	35	MANAGER	KAPIL	45	ACCOUNTANT	3
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h	What is full form of CSV.	1												
i	Write output of following code: <pre>import pandas as pd my_series=pd.Series({'Indore':20,'Ujjain':35,'Bhopal':40}) print(my_series[my_series>20])</pre>	2												
j	2. Write a program to replace all negative values in a data frame with a 0.	3												
3 a	What is RDBMS? Give Example.	1												
b	Define following with example. Primary Key, Candidate Key, Alternate Key, Foreign key	2												
c	What types of commands are used in following categories? (1) DDL (2) DML	2												
d	Answer the question based on the table VOTER given below:	4												

Table : VOTER				
Column Name	Data type	Size	Constraints	Description
V_id	BIGINT	8	Primary key	Voter identification
Vname	VARCHAR	25	Not null	Name of the voter
Age	INT	3	Check>17	Age should not less than equal to 17
Address	VARCHAR2	30		Address of voter
Phone	VARCHAR	10		Phone number of the voter

(1) Write the command to delete all the rows of particular voter from the table voter where voter ID between 10 and 20.

(2) Delete the table physically.

e	Which keyword is used to eliminate redundant data?	1
4a	What do you mean by cyber trolls and bullying.	2
b	Differentiate between adware and malware.	2
c	Describe eavesdropping, and phishing and identity verification.	3
d	List rules for safely browsing the web	2
e	What is Cyber Crime. Give Example.	1