SAMPLE PAPER - 5

CLASSXII

INFORMATICS PRACTICES(065)

TIME:3 HOURS   **M.M.70**

General Instructions:
1. This question paper contains five sections, Section A to E.
2. All questions are compulsory.
3. Section A have18 questions carrying01 mark each.
4. Section B has 07 Very Short Answer type questions carrying02 marks each.
5. Section Chas 05 Short Answer type questionscarrying03markseach.
6. Section Dhas03 LongAnswertypequestionscarrying05markseach.
7. Section E has02 questionscarrying04marks each. One internal choice is given in Q35 against part c only.
8. All programming questions are to be answered using Python Language only.

	PARTA	
1.	a)Internet **1 mark for correct answer**	1
2.	c)Plagiarism **1 mark for correct answer**	1
3.	d) All of these **1 mark for correct answer**	1
4.	c)Null value **1 mark for correct answer**	1
5.	b) 2.8 **1 mark for correct answer**	1
6.	d) Property **1 mark for correct answer**	7
7.	d) Arithmetic Functions **1 mark for correct answer**	
8.	a) 460 **1 mark for correct answer**	1
9.	c)LCASE(str/column_name) **1 mark for correct answer**	1
10.	b) S[2] **1 mark for correct answer**	1
11.	c)Homogeneous tabular data structure **1 mark for correct answer**	1
12.	d) type **1 mark for correct answer**	1
13.	c)Chat group **1 mark for correct answer**	1

14.	d)DATE() **1 mark for correct answer**	1
15.	c)India's Information Technology(IT),Act ,2000 **1 mark for correct answer**	1
16.	a) Copyright **1 mark for correct answer**	1

	Q17and18areASSERTIONANDREASONING 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.	i) Both A and R are true and R is the correct explanation for A	1
18.	i) Both A and R are true and R is the correct explanation for A .	1
	SECTION B	
19	**Website**: A group of related webpages that follow the same theme and are connected together with hyperlinks is called a Website. **Webpage**: web page is an electronic document designed using HTML.it displays information in textual or graphical form. **1 mark for correct explanation of each term** **OR** Network: A network is aninterconnected collection of autonomous computers that can share and exchange information. **1 mark for correct explanation** **Need of Networking:** i. Resource sharing ii. Reliability iii. Cost effective iv. Fast data sharing **½ mark for each (any two)**	2
20	**SELECT Deptcode,MAX(Salary) FROM Employee GROUP BY Deptcode;** **1 Mark for error identification** **1 Mark for writing correct query**	2
21.	None of the aggregate functions takes NULL into consideration. NULL is simply ignored by all the aggregate functions excepts COUNT(*). **2 marks for correct answer**	2
22.	import pandas as pd d={'English':75,'Hindi':78,'Math':82,'Science':88} Subject=pd.Series(d) print(Subject) **½ marks for import statement** **½ marks for using dictionary** **½ marks for uses of Series()** **½ marks forcreating object Subject and print()**	2

23.	1.Recycling/recovery of valuable material. 2.Dismantling 3.Refurbishment and reuse 4.Disposal of dangerous materials and waste **½ mark for each correct answer** **OR** On the internet, a digital footprint is the word used to describe the train, traces or footprints that people leave online. This is information transmitted online, such as forum registration-mails and attachments, uploading videos or digital images. **1mark for each correct answer** Guidelines of Digital Footprint 1.know what your digital footprints is 2.keep your digital foot print clean **½ mark for each correct point**	2
24.	2 8 4 7 **1 mark for each correct answer**	2
25.	**i) 3 columns** **ii)import pandas as pd** **1 mark for each correct answer**	2
	SECTION C	
26.	import pandas as pd data=[[201,'Gurmeet',95],[202,'Praveen',89],[203,'Suman',97],[204.'Yogesh',91]] df=pd.DataFrame(data,columns=['Rno','Name', 'Marks']) **1 mark for each correct python statement**	3
27.	i. Fees['Section']= ['A','B','C','D'] ii. Fees.loc['4']=['IX',1800] iii. Fees=Fees.drop('Section',axis=1) **1 mark for each correct statement**	3
28.	Write SQL commands for the statements (i) to (iii) which are based on the given table MASTER. i)132000 ii)**GEN COUNT(*)** 　　**F　　　3** 　　**M　　　4** iii) 2000 2000	3
29	i. Cyber stalking ii. He should bring to the notice of his parents and school authorities. iii.Computer ethics	3
	OR Ans. **Plagiarism** is the act of using or stealing someone else's intellectual work, ideas etc. and passing it as your own work. In other words, plagiarism is a failure in giving credit to its source. Plagiarism is a fraud and violation of Intellectual Property Rights. Since IPR holds a legal entity status, violating its owners right is a legally punishable offence.	3

	Any two ways to avoid plagiarism: • Be original • Cite/acknowledge the source **1 mark for correct definition** **1 mark for correct justification** **½ mark each for any two ways to avoid plagiarism**	
30	**ANS:** (i) SELECT Sname, ROUND(Bonus,0)FROM Salesman; (ii) SELECT MONTHNAME(DOJ) FROM Salesman; (iii) SELECT MIN(SALARY) FROM Salesman; **1 mark for each correct query**	3
	OR	
	The GROUP BY clause can be used to combine all those records that have identical value in a particular field or a group of fields. Whereas, ORDER BY clause is used to display the records either in ascending or descending order based on a particular field. For ascending order ASC is used and for descending order, DESC is used. The default order is ascending order. **1 mark for correct significance 2 marks for correct example**	
	SECTION E	

33.	i. select mid('INDIA SHINING',7,7);
	ii. select INSTR('WELCOME WORLD','COME');
	iii. select round(78.779,2);
	iv. select mod(149,6);
	v. select trim(userid) from users;
	
	1 mark for each correct query
	 OR
	1.LENGTH(): This function returns the length of the string in bytes. It includes the count of blank spaces in the string.
	Syntax
	LENGTH(string/column_name)
	EXAMPLE :
	SELECT LENGTH('easycalculation');
	Output:
	15
	2. TRIM(): It removes the leading and trailing spaces from the given string.
	Example:
	SELECT TRIM(' Welcome world ');
	Output:
	Welcome world
	3. This function returns the current date and time in the format 'YYYY-MM-DD HH:MM:SS' or YYYYMMDDHHMMSS format.
	Syntax NOW()
	e.g. mysql> SELECT NOW()
	Output:
	'YYYY-MM-DD HH:MM:SS' or YYYYMMDDHHMMSS format of current date
	4. **DAYNAME():** It returns the weekday name for a given date
	Example:
	SELECT DAYNAME('2022-07-22');
		5

Output: Friday **5. POWER():** It returns the value of a number raised to the power of another number. **Example:** SELECT POW(6,2); **Output:** 36 **½ mark for each correct explanation** **½ mark for each correct example**	
34. i) TTC should install its server in finance block as it is having maximum number of computers. ii) The above layout is based on minimum cable length required which is 120 meter in the above case. iii) Switch iv)WAN v) Satellite Link	5

Human Resources Block

Conference Block

Finance Block

| 35 | import matplotlib.pyplot as plt
Games=["Subway Surfer","TempleRun","CandyCrush","BottleShot","RunnerBest"]
Rating=[4.2,4.8,5.0,3.8,4.1]
plt. bar(Games,Rating)
plt.xlabel("Games")
plt.ylabel("Rating")
plt. show()
½ mark for each correct statement
Python statement to save the chart:
plt.savefig("aa.jpg")
1 mark for the correct statement | |

OR
import matplotlib.pyplot as plt Year=[2015,2016,2017,2018] Pass_Percentage=[82,83,85,90] plt. plot(Year,Pass_Percentage) plt.xlabel("Year") plt.ylabel("Pass_Percentage") plt. show() **1 mark for each correct statement**

SECTION D

| 31 | i. SELECT UPPER(PNAME) FROM STOCK;
ii. SELECT* FEOM STOCK ORDER BY PRICE DESC;

1 mark for each correct query | 1+1+2 |

	iii. SELECT CATEGORY,MAX(PRICE) FROM STOCK GROUP BY CATEGORY;
	
	OR
	  SELECT CATEGORY,SUM(QTY) FROM STOCK GROUP BY CATEGORY;
	  2 marks for correct query	

32.	A)
	i) 2 2012 Jan 35
	  3 2010 Dec 55
	  4 2012 Dec 65
	ii) 55
	  65
	1 mark for each correct output
	B)Python statement:
	print(df.loc[1: 3, 'year'])
	 OR
	df.rename(columns={'Month':'mon_name')
	
	2 marks for correct Python statement
		1+1+2