## WWW.LEARNPYTHON4CBSE.COM <u>MARKING SCHEME</u>

## **CLASS XII**

## **INFORMATICS PRACTICES (065)**

TIME: 3 HOURS M.M.70

1.	iii. Gateway	1
1.		
	1 mark for correct answer	
2.	ii. Computer Virus	1
	1 mark for correct answer	
3.	ii. Digital property	1
	1 mark for correct answer	
4.	iii. SELECT * FROM PRODUCT ORDER BY PRICE DESC;	1
	1 mark for correct answer	
5.	i. 4	1
	1 mark for correct answer	
6	:: Euro	1
6.	ii. Free	1
	1 mark for correct answer	
7.	ii. 15.8	1
	1 mark for correct answer	
8.	i. ROUND()	1
	1 mark for correct answer	
9.	ii. MIN ( )	1
	1 mark for correct answer	
10.	i. print(Marks.tail(2))	1
10.	- p((	
	1 mark for correct answer	
11.	iv. statistical	1
	1 mark for correct answer	
12.	ii. Heterogenous	1
L	l	

	1 mark for correct answer	
13.	ii. Cookies	1
	1 mark for correct answer	
14.	ii. DAYNAME	1
	1 mark for correct answer	
15.	iv. Plagiarism	1
	1 mark for correct answer	
16.	iii. A song you wrote	1
	1 mark for correct answer	
17.	ii. Both A and R are true and R is not the correct explanation for A.	1
18.	iii. A is True but R is False	1
19.	Static web page: In static web pages, Pages will remain same until someone changes it manually and information changes rarely. Dynamic web page: In dynamic web pages, Content of pages are different for different visitors and information change frequently.  2 Mark for writing correct difference.  OR  Repeater: A repeater is an electronic device that receives a signal and retransmits it. It regenerates the signal and forwards the refreshed signal. A repeater operates at the physical layer.  Firewall: A Firewall is a network security device that monitors and filters incoming and outgoing network traffic based on an organization's previously established security policies.  1 Mark each for writing correct function of respective networking device.	2
20.	This is because the column Fee contains a NULL value and the NULL values are not taken into account in aggregate functions.  So, Command1 returns the total number of records in the table which was 5 in this case whereas Command2 returns the total number of not null values in the column name.  1 Mark for writing correct reason different output. 1 Mark for writing correct justification.	2

21.					ement in combon distinct va		2
	For example:						
	To display total number of CLASS XI AND XII students from the table STUDENT, we need to first group records based on the class then we should count records with the help of count() function. Considering the following table STUDENT:						
	RollNo	Name	Class	Gender	City	Marks	
	1	Abhinav	XI	M	Ajmer	40	
	2	Prachi	XII	F	Mumbai	44	
	3	Neha	XI	F	Chennai	43	
	4	Nancy	XII	F	Mumbai	30	
	5	Hemant	XII	M	Delhi	33	
	6	Ajay	XI	M	Hyderabad	53	
		or correct j or correct (					
2.	stu_marks= pd.Series([67,72,85,83], index=["Maths", "English", "Hindi", "IP"])					2	
	>>> print(stu_marks)						
	English Hindi 8 IP 83	67 72 35	rect pytho	on statement			

23.	<ul> <li>i. Give Your Electronic Waste to a Certified E-Waste Recycler</li> <li>ii. Donating Your Outdated Technology</li> <li>iii. Give Back to Your Electronic Companies and Drop Off Point</li> <li>1 mark for each solution.(Write any two).</li> </ul>	2
	Or	
	<ul> <li>The continuous use of devices like smartphones, computer desktop, laptops, head phones etc. can cause a lot of health hazards if not addressed. These are:</li> <li>i. Impact on hearing: Using headphones or earphones for a prolonged time and on high volume can cause hearing problems and in severe cases hearing impairments.</li> <li>ii. Impact on eyes: This is the most common form of health hazard as prolonged hours of screen time can lead to extreme strain in the eyes.</li> </ul>	
24	1 mark for each hazard (Write any two).	
24.	0 True 1 True 2 False 3 True	2
	½ mark for each correct output	
25.	i. The index labels of df will include 0,1	2
	ii. The column names of df will be: a,b,c	
	1 mark for each correct answer	
26.	i. 4 ii. 'DHN' iii. 0	3
	1 mark for each correct output	
27.	import pandas as pd	3
	employee=	
	pd.DataFrame({'Name':['Rahul','Sakshi','Saksham','Arun'],'Salary':[50000,46000, 38000, 25700]},	
	index=[101,102,103,104]);	
	print(employee)	
	OR	

	import pandas as pd	
	Dic= {'Name':['Rahul','Sakshi','Saksham','Arun'],'Salary':[50000,46000, 38000, 25700]}	
	employee = pd.DataFrame(Dic,index=[101,102,103,104]);	
	print(employee)	
	1 mark for each correct python statement	
28.	<ul><li>i. df.Kolkata['population']=500000</li><li>ii. df.rename(index={"population":"pop"},inplace=True)</li><li>iii.print(df.Delhi['hospitals'])</li></ul>	3
	1 mark for each correct statement	
29.	<ul><li>i. Anisha has become a victim of phishing.</li><li>ii. She must immediately bring it into the notice of cyber cell and must report this cybercrime to local police.</li><li>iii. Yes.</li></ul>	3
	The Information Technology Act, 2000 (also known as ITA-2000, or the IT Act) is the primary law in India dealing with cybercrime and electronic commerce	
	1 mark for each correct answer OR	
	Net Etiquettes refers to the proper manners and behavior we need to exhibit while being online. These includes:  1. No copyright violation: we should not use copyrighted materials without the permission of the creator or owner. We should give proper credit to owners/creators of open source content when using them.	
	2. Avoid cyber bullying: Avoid any insulting, degrading or intimidating online behavior like repeated posting of rumors giving threats online, posting the victim's personal information, or comments aimed to publicly ridicule a victim.	
	1 mark for correct definition. 1 mark for each correct etiquette.	
	a. Select * from Faculty where First name like '%t';	
30.	b. Select * from Faculty order by Hire_date desc; c. Select max(Salary), min(Salary) from Faculty; 1 mark for each correct answer	3
	OR	3
	Order By clause: The ORDER BY command is used to sort the result set in ascending or descending order.  The following SQL statement displays all the customer's names in alphabetical order:	
	SELECT Cname FROM Customers ORDER BY Cname;	
	1 mark for correct significance 1 mark for correct example	

## SECTION - D

31.	a. SELECT UPPER(COMPANY) FROM VEHICLE; b. SELECT MIN(PRICE) FROM VEHICLE; 1 mark for each correct query c. select Company, count(Type) from Vehicle group by Company; OR select Type, sum(Price) from Vehicle group by Type; 2 mark for each correct query	1+1+2
32.	A. Output i. (4,3) ii Sports.loc['SD5']=[5, 'RAM', 'M']  1 mark for each correct answer  B. del Sports['GENDER'] OR Sports.drop(index= 'SD3'))  2 mark for correct python statement	1+1+2

	SECTION - E	
33.	<ul> <li>i. select mid('INDIA RISING',3,5);</li> <li>ii. select INSTR('PYTHON FUNDAMENTALS','FUNDA');</li> <li>iii. select round(453.668.78,2);</li> <li>iv. select mod(120,7);</li> <li>v. select trim(student_id) from student;</li> </ul>	5
	1 mark for each correct query	
	OR	
	1. LCASE(): It converts the string into lower case.  Example:  SELECT LCASE('WELCOME');  Output:  'welcome'	
	2. TRIM(): It removes the leading and trailing spaces from the given string.  Example:	
	SELECT TRIM(' Welcome '); Output: 'Welcome'	
	<b>3. SUBSTR():</b> It extracts the specified number of characters from given string.	
	Example: SELECT SUBSTR(' Welcome world,4,3); Output:	
	'Com'  4. MONTHNAME(): It returns the month name for a given date  Example:	
	SELECT MONTHNAME('2022-07-22'); Output: JULY	
	<b>5. TRUNCATE</b> (): The TRUNCATE() function truncates a number to the specified number of decimal places. <b>Example:</b>	
	SELECT TRUNCATE(23.454,2); Output:	
	1/2 mark for each correct explanation 1/2 mark for each correct example	

