MARKING SCHEME
CLASS XII
INFORMATICS PRACTICES (065)
TIME: 3 HOURS
M.M. 70

| 1. | iii. MAN <br> 1 mark for correct answer | 1 |
| :---: | :---: | :---: |
| 2. | ii. Installing antivirus for protection <br> 1 mark for correct answer | 1 |
| 3. | iii. Unused old computers <br> 1 mark for correct answer | 1 |
| 4. | iii. Null value <br> 1 mark for correct answer | 1 |
| 5. | $\text { i. } 20500$ <br> 1 mark for correct answer | 1 |
| 6. | ii. Open <br> 1 mark for correct answer | 1 |
| 7. | ii. SELECT COUNT (*) FROM ORDERS; <br> 1 mark for correct answer | 1 |
| 8. | i. ROUND( ) <br> 1 mark for correct answer | 1 |
| 9. | i. MAX () <br> 1 mark for correct answer | 1 |
| 10. | iv. S.tail() <br> 1 mark for correct answer | 1 |
| 11. | iii. import pandas as pd <br> 1 mark for correct answer | 1 |
| 12. | iv. All of these | 1 |


|  | 1 mark for correct answer |  |
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| 13. | iii. Avast <br> 1 mark for correct answer | 1 |
| 14. | iv. Now() <br> 1 mark for correct answer | 1 |
| 15. | i. Copyright <br> 1 mark for correct answer | 1 |
| 16. | iii. Digital footprint <br> 1 mark for correct answer | 1 |
| 17. | iii. A is True but R is False | 1 |
| 18. | i. Both $A$ and $R$ are true and $R$ is the correct explanation for $A$ | 1 |
| 19. | Web Page: A Web Page is a part of a website and is commonly written in HTML. It can be accessed through a web browser. <br> Home Page: It is the first web page you see when you visit a website. <br> 1 mark for correct explanation of each term <br> Or <br> Four networking goals are: <br> i. Resource sharing <br> ii. Reliability <br> iii. Cost effective <br> iv. Fast data sharing <br> $1 / 2$ mark for each goal | 2 |
| 20. | The problem with the given SQL query is that WHERE clause should not be used with Group By clause. <br> To correct the error, HAVING clause should be used instead of WHERE. <br> Corrected Query: <br> SELECT HOUSE, COUNT(*) FROM STUDENT GROUP BY HOUSE HAVING HOUSE= ‘RED' OR HOUSE='YELLOW'; <br> 1 Mark for error identification <br> 1 Mark for writing correct query | 2 |


| 21. | Order By clause: <br> The ORDER BY command is used to sort the result set in ascending or descending order. <br> The following SQL statement displays all the customer's names in alphabetical order: <br> SELECT Cname FROM Customers ORDER BY Cname; <br> 1 mark for correct purpose <br> 1 mark for correct example | 2 |
| :---: | :---: | :---: |
| 22. | $\begin{aligned} & \text { St=\{'Beas' :18, 'Chenab' : } 20 \text {, ' Ravi' :20, 'Satluj' :18\} } \\ & \text { S1=pd.Series(St) } \end{aligned}$ <br> 1 mark for each correct python statement | 2 |
| 23. | The e-waste management- <br> i. Saves the environment and natural resources <br> ii. Allows for recovery of precious metals <br> iii. Protects public health and water quality <br> iv. Saves landfill space <br> $1 / 2$ mark for each benefit <br> Or <br> i. No copyright violation <br> ii. Share the expertise with others on the internet <br> iii. Avoid cyber bullying <br> iv. Respect other's privacy and diversity <br> $1 / 2$ mark for each net etiquette | 2 |
| 24. | 0 False <br> 1 False <br> 2 True <br> 3 False <br> 112 mark for each correct output  | 2 |
| 25. | i. The index labels of df will include Q1, Q2, Q3, Q4, A, B, C <br> ii. The column names of df will be: 1,2 <br> 1 mark for each correct answer | 2 |
| 26. | i. 8 <br> ii. No Output <br> iii. 0 <br> 15 | 3 |


|  | 1 mark for each correct output |  |
| :---: | :---: | :---: |
| 27. | ```import pandas as pd data=[[101,'Gurman',98],[102,'Rajveer',95],[103,'Samar' ,96], [104,'Yuvraj',88]] df=pd.DataFrame(data,columns=['Rno','Name',''Marks'])``` <br> 1 mark for each correct python statement | 3 |
| 28. | i. Stock['Special_Price']=[135,150,200,400] <br> ii. Stock.loc['4']=['The Secret',800] <br> iii. Stock=Stock.drop('Special_Price',axis=1) <br> 1 mark for each correct statement | 3 |
| 29. | i. Nadar has become a victim of cyber bullying and cyber stalking. <br> ii. She must immediately bring it into the notice of her parents and school authorities. And she must report this cyber crime to local police with the help of her parents. <br> iii. Yes. <br> 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. <br> 1 mark for each correct answer <br> OR <br> 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. <br> 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. <br> Any two ways to avoid plagiarism: <br> - Be original <br> - Cite/acknowledge the source <br> 1 mark for correct definition <br> 1 mark for correct justification <br> $1 / 2$ mark each for any two ways to avoid plagiarism | 3 |



|  | OR <br> 1. UCASE(): It converts the string into upper case. <br> Example: <br> SELECT UCASE('welcome world'); <br> Output: <br> WELCOME WORLD <br> 2. TRIM(): It removes the leading and trailing spaces from the given string. <br> Example: <br> SELECT TRIM(' Welcome world '); <br> Output: <br> Welcome world <br> 3. MID(): It extracts the specified number of characters from given string. <br> Example: <br> SELECT MID(‘ Welcome world,4,4); <br> Output: <br> Come <br> 4. DAYNAME(): It returns the weekday name for a given date <br> Example: <br> SELECT DAYNAME('2022-07-22'); <br> Output: <br> Friday <br> 5. POWER(): It returns the value of a number raised to the power of another number. <br> Example: <br> SELECT POW(6,2); <br> Output: <br> 36 <br> $1 / 2$ mark for each correct explanation <br> $1 / 2$ mark for each correct example |  |
| :---: | :---: | :---: |
| 32. | i. Server should be installed in Admin department as it has maximum number of computers. <br> ii. <br> Star topology | 5 |


|  | iii. Hub/Switch <br> iv. Dynamic <br> v. Video conferencing <br>   <br> 1 Mark for  |  |
| :---: | :---: | :---: |
| 33. | import matplotlib.pyplot as plt <br> Category=['Gold','Silver','Bronze'] <br> Medal=[20,15,18] <br> plt.bar(Category,Medal) <br> plt.ylabel('Medal') <br> plt.xlabel('Medal Type') <br> plt.title('Indian Medal tally in Olympics') plt.show() <br> $1 / 2$ mark for each correct statement <br> Python statement to save the chart: <br> plt.savefig("aa.jpg") <br> 1 mark for the correct statement <br> import matplotlib.pyplot as plt <br> Week=[1,2,3,4] <br> Avg_week_temp=[40,42,38,44] <br> plt.plot(Week,Avg_week_temp) <br> plt.show() <br> 1 mark for each correct statement | 5 |
| 34. | i. SELECT LOWER(CNAME) FROM CLOTH; <br> ii. SELECT MIN(PRICE) FROM CLOTH; <br> 1 mark for each correct query <br> iii. SELECT COUNT(*) FROM CLOTH GROUP BY SIZE HAVING SIZE='M'; <br> OR <br> SELECT YEAR(DOP),COUNT(*) FROM CLOTH GROUP BY YEAR(DOP); <br> 2 marks for correct query | 1+1+2 |
| 35. | A. Output: <br> i. $\quad(5,4)$ | 1+1+2 |



