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| **HY/IPH-AK/1222/C 29-SEP-2022** | | | |
| **HALF YEARLY EXAMINATION (2022-23)** | | | |
| **Subject: Informatics Practices**  **Grade: XII** | | Max. Marks:70Time:3 hours | |
|  | **PART A** | |  |
|  | **SECTION I**  **Attempt any 15 questions from questions 1 to 21** | |  |
| 1 | False | | 1 |
| 2. | Comma Separated Values | | 1 |
| 3. | Insert | | 1 |
| 4. | plt.title() | | 1 |
| 5. | Panel Data | | 1 |
| 6. | Avast | | 1 |
| 7. | Recycle | | 1 |
| 8. | Open Data | | 1 |
| 9. | update | | 1 |
| 10. | print(S.tail(5) | | 1 |
| 11 | Matplotlib | | 1 |
| 12. | row | | 1 |
| 13. | Df=pd.DataFrame() | |  |
| 14. | Legend | | 1 |
| 15. | 111  222  NAn | | 1 |
| 16. | 1 6  2 6  4 6  6 6  8 6  9 6 | | 1 |
| 17. | IT Act 2000 | | 1 |
| 18. | drop | | 1 |
| 19. | Order by | | 1 |
| 20. | Savefig() | | 1 |
|  | **SECTION II** | |  |
| 21. | Name Raj  Marks 14  Name: R3, dtype: object  Name Ami  Marks 100  Name: R1, dtype: object  Name Marks  R1 Ami 100  100 | | 1  1  1  1 |
| 22. | Consider the table Library | |  |
| i) | date | | 1 |
| ii) | alter | | 1 |
| iii) | Select \* from library order by status | | 1 |
| iv) | Primary key | | 1 |
|  | **PART B** | |  |
|  | **SECTION 1** | |  |
| 23. | Import pandas as pd  S=pd.Seris([,,,],index=[bst,eng..]) | | 2 |
| 24. | Data Definition Language (DDL) helps you to define the database structure or schema while Data Manipulation language (DML command) allows you to manage the data stored in the database. DDL command is used to create the database schema while DML command is used to populate and manipulate database | | 2 |
| 25. | print(s[s>250]) | | 2 |
| 26. | i.  alter table library add column rating varchar(20);  ii. To give an increase of 50 Rs. to all the books:  update library set price=price+50; | | 2 |
| 27. | Cookies are text files with small pieces of data — like**a username and password** — that are used to identify your computer as you use a computer network. Specific cookies known as HTTP cookies are used to identify specific users and improve your web browsing experience. | | 2 |
| 28. | 1. Hacker | | 2 |
| 29. | Create table Inventory (material int primary key,.material varchar.) | | 2 |
| 30. | 0  2 Banana  3 Mango  0  4 Orange  5 Litchi | | 2 |
| 31. | What do you understand by Net Ettiquetes? Explain any two such ettiquetes. | | 2 |
|  | **SECTION** **II** | |  |
| 32. | There are two types of digital footprints:**passive and active**. A passive digital footprint is the information collected from a user without their knowledge. An active digital footprint is where a user knows that they're sharing the information (e.g., posting on Facebook or submitting a web form). | | 3 |
| 33. |  | | 3 |
| 34. | Observe the following tables, EMPLOYEES and DEPARTMENT carefully and answer the questions that follow :     1. Give the Degree of the table EMPLOYEE 4   cardinality of the table DEPARTMENT. 3   1. Specify the Primary key **ENO** 2. Foreign key of Table employees **DNO** | | 3 |
|  | **SECTION III** | |  |
| 35. | Write a program to create a dataframe for the following and perform the following.  Name Marks1 Marks2  0 Amit 10 20  1 Jeevan 12 30  2 Rani 14 40  3 Pranav 16 50   1. Add a new column Average to store the average of both the marks.   Df[‘Average’]=(df[‘Mark1’]+df[‘Mark2’])/2   1. Delete the last row from the dataframe.   Df.drop(3,inplace=True)   1. Display the details of Jeevan and Rani   Df.loc[‘Jeevan’:’Rani’,] | | 5 |
| 36. | **Consider the following table.**  **Loan**   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | AcNo | Cust\_name | Loanamount | IntRate | StartDate | Type | | 1 | Mr.R.K.Gupta | 300000 | 12.00 | 2019-07-19 | HouseLoan | | 2 | Mr.S.P.Sharma | 500000 | 10.00 | 2018-03-22 | VehicleLoan | | 3 | Ms.K.P.Jain | 300000 | NULL | 2017-03-08 | HouseLoan | | 4 | Mr.M.P.Yadav | 800000 | 10.00 | 2018-12-06 | HouseLoan | | 5 | Mr.S.P.Sinha | 200000 | 12.50 | 2020-01-03 | VehicleLoan | | 6 | Mr.P.Sharma | 700000 | 12.50 | 2018-06-05 | HouseLoan | | 7 | Ms.Shanu | 500000 | NULL | 2016-03-05 | GoldLoan |   Write MySQL commands for the following   1. Display the IntRate of all the loans started in 2018.   Select intrate from loan where startdate like’2018%’;   1. Display the details of all the loans whose rate of interest is not NULL.   Select \* from loan where intrate is not null;   1. Display names of female customers.   Select \* from loan where cust\_name like ‘ms%’;   1. Display the AcNo, Cust\_Name, and Loan\_Amount for all the loans for which the Cust\_Name does not contain 'S'. 2. Select \* from loan where cust\_name not like ‘%s%’; | | 5 |
| 37 | Write a program in Python Pandas to create the following DataFrame batsman  from a Dictionary:    Perform the following operations on the DataFrame :  1)Add both the scores of a batsman and assign to column “Total”  Df[‘Total’]=df.Score1+df.Score2  2)Display the highest score in both Score1 and Score2 of the DataFrame  print(df.Score1.max(),df.score2.max()) | | 5 |

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