BUDHA DAL PUBLIC SCHOOL, PATIALA

SECOND TERM EXAMINATION (4 December 2023) CLASS XII SUBJECT INFORMATICS PRACTICES (065)

TIME:03 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 has18 questions carrying 01 mark each.
- 4. Section B has 07 Very Short Answer type questions carrying 02 marks each.
- 5. Section C has 05 Short Answer type questions carrying 03 marks each.
- 6. Section D has 02questions carrying 04 marks each.
- 7. Section E has 03 questions carrying 05 marks each.

| | SECTIONA | |
|----|--|---|
| 1. | Choose the Correct Option A two- dimensional labeled array that is an ordered collection of columns to store heterogeneous data type is: (a) Series(c) NumPY array (b) Dataframe(d) Panel | 1 |
| 2. | CSV Stands for: (a) Comma Separated Value (b) Column Separated Values (c) Comma Separated Variables (d) Column Separated Variables | 1 |
| 3. | Which of the following methods should be employed in the code to display a plot()? (a) Show (b) display () (c) Execute () (d) plot() | 1 |
| 4. | Which of the following plots makes it easy to visualize a trend in data over intervals of time. (a) Box Plot (b) Histogram (c) Line Chart (d) Bar Chart | 1 |
| 5. | The term 'Intellectual Property Rights' Covers. (a) Copyrights (b) Patents (c) Trademarks (d) All of these | 1 |
| 6. | Unsolicited commercial email is known as (a) Spam (b) Malware (c) Virus (d) Spyware | 1 |
| 7. | Which of the following is not a type of a cybercrime? (a) Data theft (b) Damage to data (c) Forgery (d) Installing antivirus for protection | 1 |
| 8. | Online Personal account, personal websites are examples of: (a) Digital Wallet (b) Digital Certificate (c) Digital Property (d) Digital Signature | 1 |
| 9. | Fill in the Blank A is a Pandas data structure that represents a one-dimensional array-like object of indexed data. | 1 |

| 10. | Missing data | in Pandas series a | and dataframes can be filled with avalue. | | | | | |
|-----|--|----------------------|---|--|--|--|--|--|
| 11. | | is the text that app | pears on the top of the plot and defines what the chart is about. | | | | | |
| 12. | Barh() funct | tion is used to crea | ntebar chart. | | | | | |
| 13. | To change th | ne orientation of th | e histogram, we can useargument with hist(). | | | | | |
| 14. | The area on | which actual plot | will appear is defined by | | | | | |
| 15. | Software wh | ich usually limit t | he functionality after a trial period are known as | | | | | |
| 16. | IT Amendm | ent Act, 2008 cam | e into force from the year | | | | | |
| | Q17and18ar | eASSERTIONANI | OREASONINGbasedquestions.Markthecorrect choiceas | | | | | |
| | , | | Risthe correct explanation for A | | | | | |
| | | | nd R is not the correct explanation for A | | | | | |
| | 1 | rue but R is False. | | | | | | |
| 2 | 1 | alse but R is True. | | | | | | |
| 17. | a victim of | cyberstalking. | is a form of cybercrime. | | | | | |
| 18. | Assertion (| A):- An internet tro | oll is a person who deliberately sows discord on the internet by | | | | | |
| | SECTION B | | | | | | | |
| 19. | How can we | e check if a datafra | medf has any missing values? | | | | | |
| 20. | Write a python code to create an empty dataframe. | | | | | | | |
| 21. | What are th | e advantages of CS | SV file formats? | | | | | |
| 22. | What is Ma | tplotlib? | | | | | | |
| 23. | What are the various types of plot offered by Matplotlib? | | | | | | | |
| 24. | Write any two net etiquettes related to use of Internet Technology. | | | | | | | |
| 25. | What is cyber trolling? | | | | | | | |
| | | | SECTION C | | | | | |
| 26. | Write Python code to create the Series EMP with the following data (Using Dictionary). | | | | | | | |
| 20. | Code | | | | | | | |
| | E1 | SANYA | | | | | | |
| | E2 | KRISH | | | | | | |
| | E3 | RISHAV | | | | | | |
| | E4 | DEEPAK | | | | | | |
| | | | | | | | | |

| 7. Wh | at will b | e the out | put of the | following o | eode: | | |
|--------|---|-------------|-------------|--------------------------|--|--|--|
| 1 - | Import pandas as pd | | | | | | |
| S1= | pd.Serie | s([1,2,2,7 | ,'Sachin', | 77.5]) | | | |
| prir | nt(S1.hea | d()) | | | | | |
| prir | nt(S1.hea | d(3)) | | | | | |
| | | | | | | | |
| 28. Wh | What is data visualization? What is its significance? | | | | | | |
| | | | | our e-waste | | | |
| 80. Ho | How is digital piracy related to illegal download? | | | | | | |
| | | | | SE | CTION D | | |
| 31. W1 | ite a pan | das progra | am to get l | ast 3 records | s of ad dataframe. | | |
| Or | ioinal Da | ta Frame | | | | | |
| | Igniai 2 a | T . | 0.12 | C-12 | 1 | | |
| | | Col 1 | Col 2 | Col 3 | _ | | |
| | 0 | 1 | 4 | 7 | | | |
| | 1 | 2 | 5 | 5 | | | |
| 200 | 2 | 3 . | 6 | 8 | | | |
| | 3 | 4 | 9 | 12 | 1 | | |
| | 4 | 7 | 5 | 1 | | | |
| | 5 | 11 | 0 | 11 | | | |
| | | × 1 | | | | | |
| L | ast 3 rows | s of the sa | id DataFra | | ٦ | | |
| | | Col 1 | Col 2 | Col 3 | | | |
| - 1 | | | | | 7 | | |
| | 3 | 4 | 9 | 12 | | | |
| | 3 | 7 | 5 | 12 | | | |
| | 4 | 7 | 5 | 1 | | | |
| | | - | | | | | |
| 32 F | 5 | 7 11 | 5 | 1 11 | excessive use of technology. | | |
| 32. E | 5 | 7 11 | 5 | 1 11 | excessive use of technology. | | |
| 32. E | 5 | 7 11 | 5 | 1 11 ds related to | excessive use of technology. ECTION-E | | |
| 32. E | 5 | 7 11 | 5 | 1 11 ds related to | | | |

Create two dataframes using the following two dictionaries. Merge the two dataframes and append the second dataframe as a new column to the first dataframe on the basis of manufacturing company's name.

Car_Horsepower={'Company':['Toyota','Honda','BMW','Audi'], 'horsepower':[141,80,182,160]}

Expected Output:

35.

| | Company | Price | Horsepower |
|---|---------|--------|------------|
| 0 | Toyota | 23845 | 141 |
| 1 | Honda | 17995 | 80 |
| 2 | BMW | 135925 | 182 |
| 3 | Audi | 71400 | 160 |

What do you mean by phishing? Explain with the help of an example.

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