## KENDRIYA VIDYALAYA SANGATHAN, JAIPUR REGION

 $3^{\text {rd }}$ Pre-Board Examination 2020-21 Informatics PracticesClass 12
Marking Scheme


|  | (iii) Select ucase(name), marks from student; <br> (iv) Select min(marks) from student;  <br> (v) both (a) \& (b) |  |
| :---: | :---: | :---: |
| 24 | Int64Index([100, 101, 102, 103, 104], dtype='int64') 100 1000 101 100 100 103 1000 104 1000 dtype: int64 1 mark each |  |
| 25 | Single row functions give output for each row where as multiple row functions give one output for no. of rows. example single row text,maths functions, multiple row aggregate functions 1 mark for def. 1 mark for example. OR <br> NULL values are ignored by aggregate functions. Example any 1 mark answer 1 for example. |  |
| 26 | (a) 4 <br> (b) 1.6 |  |
| 27 | (a) s.index $=\left[\right.$ 'a1','a3','a3';', $\left.144^{\prime}\right]$ <br> (b) import pandas <br> 1 mark for each | 2 |
| 28 | These two queries give different output because first query count number of rows ing table whe as second query gives number of name in column which may have null value. 2 marks for correct reply. |  |
| 29 | (A) Hello $\qquad$ <br> (B) Hello <br> OR. <br> 云, $x$ rt6 <br> (A) select dayname(now()); <br> (B) 23 | 1 mark for each |
| 30 | import pandas as pd <br> data=\{'code':['x01','x02', 'x033','x04','x05'],'pname':['Talcum powder','Face <br> wash','Bath soap','Shampoo','Tooth paste'], <br> 'price':[200,50,40,200,300]\} <br> df=pd.DataFrame(data) <br> 1 mark for import and dictionary <br> 1 mark for dataframe function and print |  |
| 31 | (A) File transfer protocol <br> (B) Internet Servise Provider <br> (C) World wide web <br> (D) Personal Area Network $1 / 2$ mark for each |  |
| 32 | Cyber law encompasses a wide varlety of legal and political issues related to internet including intellectual property, privacy, freedom of expression. <br> 1 mark for each. |  |


| 33 | We call this type of activity as Eavesdropping <br> Precautions we can take in this : <br> - - Alert employees. <br> - Round the clock control over physical access by outsiders to the area to be protected. <br> - Continuous supervision/observation of all service personnel allowed into the area for repairs or to make alterations. <br> - - Thorough inspection by a qualified technical countermeasures specialist of all new furnishings, decorations, or equipment brought into the area. <br> 1 mark for naming the activity <br> 1 mark for mentioning any one risk . |  |
| :---: | :---: | :---: |
| 34 | (a) Series() <br> (b) Int <br> (c) s.name="hello" |  |
| 35 | Recycle ewaste: <br> (a) Use certified e-waste recycler <br> (b) Visit civic institutions <br> (c) Explore retail options <br> (d) Donate your electronics <br> 1 mark for each <br> Social networking merits: <br> (A) Lowest cost <br> (B) Huge potential audience <br> (C) Closer connection with your client <br> (D) Source of instant feedback. <br> Social networking demerits: <br> (a) Unreliable information <br> (b) Lack of control'. <br> (c) Can be addictive <br> $1 \& 1 / 2$ for 3 merits and 1 and $1 / 2$ for 3 demerits. |  |


| 36 |  |  |
| :---: | :---: | :---: |
| 37 | (a) Select sum(price) from vehicle; <br> (b) Select count(type),company from vehicle group by company; <br> (c) Select * from vehicle order by company; <br> 1 mark for each |  |
| 38 | ```(A)import pandas as pd df=pd.read_&sv("C:\\student.csv") print(df) 2 marks (c) print(df[df['marks']>2]) 1 \text { mark} (d) for i,j in df.iteritems(): print(i,j) 2marks``` |  |
| 39 | (a) Display author in upper case. <br> Ans:- select ucase(author) from library; <br> (b) Display minimum and maximum price from table library. |  |

Ans:- select min(price),max(price) from library;
(c) Display the name of publisher and quantity multiplied by price. Ans:- select publisher, quantity*price from library;
(d) Display detail of author whose name start with ' $F$ '. Ans:- select * from library where author like "F\%";
(e) Display total quantity of books of each subject.

Ans:- select count(quantity) from library group by subject; 1 mark for each correct answer.
OR
(A) Display the price of books after rounding it off to zero decimal place.
Ans:- select round(price) from library;
(B) Display the current date and time.

Ans:- select now();
(C) Display the publisher name after removing all the spaces.

Ans:- select trim(publisher) from library;
(D) Display the first four characters of publisher name.

Ans:- select length(publisher) from library;
Display the length of string("good morning");
Ans:- select length("good morning");
1 mark for each correct answer.
40
i. Suggest a suitable cable layout for networking the computer of all labs and offices.

Ans:- any suitable layout 1 mark
ii. Suggest the placement of Hub/Switch/Repeater in the network.

Ans:- switch in every lab and office repeater where distance is more

iii. Mention the fast way to provide internet accessibility to all wings. al il pu nistice in on ib..

Ans:- lease line, broad band, fiber to home or any other 1 mark iv. In which wing server will be installed.

Ans:- lab 11 mark
v. Which device is required to connect computer with internet cable, without which internet access is not possible but network works.
Ans:- Modem 1 mark

