

KENDRIYA VIDYALAYA SANGATHAN JAIPUR REGION

PRE BOARD EXAMINATION 2020-21

Class : XII

Time : 3 Hrs

Subject : (065) INFORMATICS PRAC.

Maximum Marks : 70

General Instructions:

1. This question paper contains two parts A and B. Each part is compulsory.
2. Both Part A and Part B have choices.
3. Part-A has 2 sections:
 - a. Section – I is short answer questions, to be answered in one word or one line.
 - b. Section – II has two case studies questions. Each case study has 5 case-based sub-parts. An examinee is to attempt any 4 out of the 5 subparts.
4. Part - B is Descriptive Paper.
5. Part- B has three sections
 - a. Section-I : is short answer questions of 2 marks each in which two questions have internal options.
 - b. Section-II : is long answer questions of 3 marks each in which two questions have internal options.
 - c. Section-III : is very long answer questions of 5 marks each in which one question has internal option.

PART – A

Section I : Attempt any 15 questions from questions 1 to 21

Q1.	State whether True or False: (i) A worm is a self-replicating program. (ii) Firewall can be implemented in software as well as in hardware.	1
Q2.	Fill in the blanks: Which command is used to show a chart: (i) chartshow() (ii) show() (iii) display() (iv) showchart()	1
Q3.	Write the output of the following SQL command: select round(458.45, - 1) (i) 450 (ii) 400 (iii) 460 (iv) 500	1
Q4.	Given a Pandas series called Sequences, the command which will display the last 7 rows is _____. (i) print(Sequences.tail(7)) (ii) print(Sequences.Tail(7)) (iii) print(Sequences.last(7)) (iv) print(Sequences.Last(7))	1

Q5.	<p>Given the following series objects:</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td colspan="2" style="text-align: center;">S1</td> <td colspan="2" style="text-align: center;">S2</td> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">10</td> <td style="text-align: center;">0</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">15</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">20</td> <td style="text-align: center;">3</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">25</td> <td style="text-align: center;">4</td> <td style="text-align: center;">4</td> </tr> <tr> <td style="text-align: center;">5</td> <td style="text-align: center;">30</td> <td style="text-align: center;">6</td> <td style="text-align: center;">5</td> </tr> </table> <p>What will be the result of S1 – S2?</p>	S1		S2		0	10	0	1	1	15	2	2	2	20	3	3	4	25	4	4	5	30	6	5	1
S1		S2																								
0	10	0	1																							
1	15	2	2																							
2	20	3	3																							
4	25	4	4																							
5	30	6	5																							
Q6.	Statement import pyplot.matplotlib is a valid statement for working on pyplot functions. (True / False)	1																								
Q7.	Full form of bcc in the context of email is _____.	1																								
Q8.	<p>The axis 1 identifies a dataframe's _____</p> <p>(i) rows (ii) columns (iii) values (iv) datatype</p>	1																								
Q9.	<p>Which of the following is not a network topology :</p> <p>Star, Mesh, Tree, Bug, Bus</p>	1																								
Q10.	<p>For web pages where the information is changed frequently, for example, stock prices, weather information which out of the following options would you advise?</p> <p>a) Static web page b) Dynamic web page</p> <p>Justify your answer.</p>	1																								
Q11.	<p>The substr() function in MySql is an example of _____.</p> <p>(i) Math function (ii) Text function (iii) Date Function (iv) Aggregate Function</p>	1																								
Q12.	_____ refers to any information about you or created by you that exists in digital form, either online or on an electric storage device.	1																								
Q13.	In Pandas, _____ function will return the total number of rows in a dataframe.	1																								
Q14.	<p>I can keep you signed in. I can remember your site preferences. I can give you locally relevant content. Who am I ?</p>	1																								

Q15.		Which amongst the following is not an example of Antivirus ? i) Avast ii) Quick Heal iii) Edge iv) McAfee	1
Q16.		A mail or message sent to a large number of people indiscriminately without their consent is called_____.	1
Q17.		According to a survey, one of the major asian country generates approximately about 2 million tonnes of electronic waste per year. Only 1.5 % of the total e-waste gets recycled. Suggest a method to manage e-waste.	1
Q18.		The _____ command is used to sort a column's data in SQL in ascending order.	1
Q19.		Write the SQL command that removes leading and trailing spaces from a given string.	1
Q20.		The _____ topology has a central controller.	1
Q21.		What is the name of the IT law that India is having in the Indian legislature? i) India's Technology (IT) Act, 2000 ii) India's Digital Information Technology (DIT) Act, 2000 iii) India's Information Technology (IT) Act, 2000 iv) The Technology Act, 2008	1
Section II : Both the case study based questions (22 & 23) are compulsory. Attempt any four sub parts from each question. Each sub question carries 1 mark.			
Q22.		Consider the following dataframe df as shown below: <pre> name eng ip geo total T1 kushagra 52 98 85 235 T2 naresh 48 85 88 221 T3 prakhar 69 94 78 241 T4 trapti 70 81 91 242 </pre>	
	(i)	Write the code to create above dataframe in Python (Pandas code).	1
	(ii)	What will be the output produced by following statements? <pre>>>> print(df.at['T3','total'], df.at['T1','ip'])</pre> (i) 235 94 (ii) 241 98 (iii) 241 94 (iv) 235 98	1

	<p>(iii) What will be the output produced by following statements? <pre>>>> print(df.loc['T2': 'T3', 'ip':'geo'])</pre></p> <table border="1" data-bbox="305 226 1479 453"> <tr> <td data-bbox="305 226 891 338">(i)</td> <td data-bbox="891 226 1479 338">(ii)</td> </tr> <tr> <td data-bbox="305 226 891 275">ip geo</td> <td data-bbox="891 226 1479 275">ip</td> </tr> <tr> <td data-bbox="305 275 891 323">T2 85 88</td> <td data-bbox="891 275 1479 323">T2 85</td> </tr> <tr> <td data-bbox="305 323 891 371">T3 94 78</td> <td data-bbox="891 323 1479 371"></td> </tr> <tr> <td data-bbox="305 371 891 453">(iii)</td> <td data-bbox="891 371 1479 453">(iv)</td> </tr> <tr> <td data-bbox="305 371 891 420">ip geo</td> <td data-bbox="891 371 1479 420">ip</td> </tr> <tr> <td data-bbox="305 420 891 468">T2 85 88</td> <td data-bbox="891 420 1479 468">T2 85</td> </tr> <tr> <td data-bbox="305 468 891 516"></td> <td data-bbox="891 468 1479 516">T3 94</td> </tr> </table>	(i)	(ii)	ip geo	ip	T2 85 88	T2 85	T3 94 78		(iii)	(iv)	ip geo	ip	T2 85 88	T2 85		T3 94	1																																		
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	<p>(iv) What will be the output produced by following statements? <pre>>>> print(df.iat[2,1], df.iat[1,2])</pre></p> <p>(i) prakhar 69 (ii) T2 naresh (iii) kushagra 52 (iv) 69 85</p>	1																																																		
	<p>(v) What will be the output produced by following statements? <pre>>>> print(df.iloc[:: 2, 0 :: 4])</pre></p> <table border="1" data-bbox="305 940 1357 1167"> <tr> <td data-bbox="305 940 891 1052">(i)</td> <td data-bbox="891 940 1479 1052">(ii)</td> </tr> <tr> <td data-bbox="305 940 891 989">name total</td> <td data-bbox="891 940 1479 989">name total</td> </tr> <tr> <td data-bbox="305 989 891 1037">T1 kushagra 235</td> <td data-bbox="891 989 1479 1037">T2 naresh 221</td> </tr> <tr> <td data-bbox="305 1037 891 1085">T2 naresh 221</td> <td data-bbox="891 1037 1479 1085">T4 trapti 242</td> </tr> <tr> <td data-bbox="305 1085 891 1167">(iii)</td> <td data-bbox="891 1085 1479 1167">(iii)</td> </tr> <tr> <td data-bbox="305 1085 891 1134">name total</td> <td data-bbox="891 1085 1479 1134">name total</td> </tr> <tr> <td data-bbox="305 1134 891 1182">T1 kushagra 235</td> <td data-bbox="891 1134 1479 1182">T3 prakhar 241</td> </tr> <tr> <td data-bbox="305 1182 891 1230">T3 prakhar 241</td> <td data-bbox="891 1182 1479 1230">T4 trapti 242</td> </tr> </table>	(i)	(ii)	name total	name total	T1 kushagra 235	T2 naresh 221	T2 naresh 221	T4 trapti 242	(iii)	(iii)	name total	name total	T1 kushagra 235	T3 prakhar 241	T3 prakhar 241	T4 trapti 242	1																																		
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Q23.	<p>Consider the table “ITEM” created in MySQL and given below:</p> <table border="1" data-bbox="292 1318 1274 1801"> <thead> <tr> <th>ino</th> <th>Name</th> <th>Rate</th> <th>Qty</th> <th>Model</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>EARPHONE</td> <td>750</td> <td>5</td> <td>JBL</td> </tr> <tr> <td>10</td> <td>EARPHONE</td> <td>399</td> <td>4</td> <td>Mi</td> </tr> <tr> <td>11</td> <td>HEADPHONE</td> <td>700</td> <td>5</td> <td>JBL</td> </tr> <tr> <td>12</td> <td>EARPHONE</td> <td>1499</td> <td>7</td> <td>samsung</td> </tr> <tr> <td>13</td> <td>COLLER MIC</td> <td>288</td> <td>5</td> <td>Mi</td> </tr> <tr> <td>14</td> <td>MOBILE STAND</td> <td>499</td> <td>5</td> <td>lenovo</td> </tr> <tr> <td>15</td> <td>earphone</td> <td>399</td> <td>5</td> <td>BoAT</td> </tr> <tr> <td>16</td> <td>earphone</td> <td>699</td> <td>50</td> <td>samsung</td> </tr> <tr> <td>17</td> <td>headphone</td> <td>1099</td> <td>8</td> <td>BoAt</td> </tr> </tbody> </table>	ino	Name	Rate	Qty	Model	9	EARPHONE	750	5	JBL	10	EARPHONE	399	4	Mi	11	HEADPHONE	700	5	JBL	12	EARPHONE	1499	7	samsung	13	COLLER MIC	288	5	Mi	14	MOBILE STAND	499	5	lenovo	15	earphone	399	5	BoAT	16	earphone	699	50	samsung	17	headphone	1099	8	BoAt	
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(i)

State the command that will give the output as :

1

Name	Model
EARPHONE	Mi
COLLER MIC	Mi

- a) select name, model from item where model='Mi';
- b) select name, model from item where model like 'Mi';
- c) select name, model from item where ino in (10, 13);
- d) select name, model from item where Qty=4 or Qty=5

Choose the correct option:

- (i) Both (a) and (c)
- (ii) Any of the option (a), (b), and (c)
- (iii) Both (c) and (d)
- (iv) Both (a) and (b)

(ii)

What will be the output of the following command:
select * from item where qty=5 order by model desc;

1

(i)

12	EARPHONE	1499	7	samsung
16	earphone	699	50	samsung
10	EARPHONE	399	4	Mi
13	COLLER MIC	288	5	Mi
14	MOBILE STAND	499	5	lenovo
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(ii)

15	earphone	399	5	BoAT
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(iii)

17	headphone	1099	8	BoAt
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	(iii)	<p>Nishu has given the following command to obtain the highest rate of every item. Select max(rate) from item where group by name; but she is not getting the desired result. Help her by writing the correct command.</p> <p>(i) select name, max(rate) from item where group by name; (ii) select name, max(rate) from item group by name; (iii) select max(rate) from item group by model; (iv) select name, max(rate) from item order by name;</p>	1																									
	(iv)	<p>State the command to display the model and the total quantity of every model whose total quantity is greater than 10 is :</p> <p>a) select name, sum(qty) from item group by model having sum(qty)>10 b) select model, sum(qty) from item group by name having sum(qty)>10 c) select model, sum(qty) from item group by model having sum(qty)>10 d) select model, sum(qty) from item where qty>10 group by model</p> <p>Choose the correct option:</p> <p>(i) Both (b) and (c) (ii) Any of the option (a), (b), and (d) (iii) Only (c) (iv) Both (a) and (d)</p>	1																									
	(v)	<p>Help Alankar to write the command to display the name of the headphone of JBL company:</p> <p>(i) select * from item where name = '%phone' and model='JBL'; (ii) select * from item where name = 'headphone' and model='JBL'; (iii) select * from item where name like 'headphone'; (iv) select * from item where name like '%phone' and model='JBL';</p>	1																									

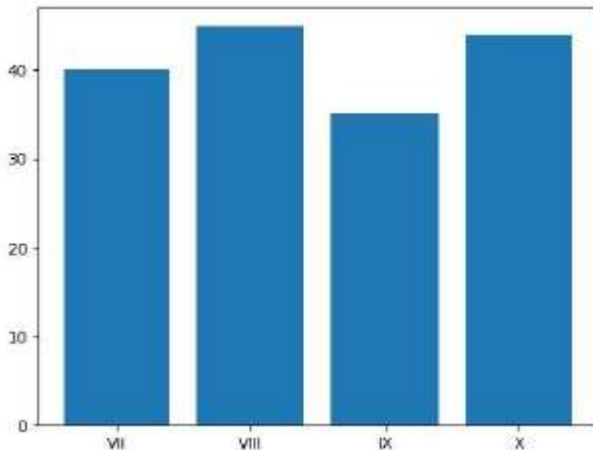
PART - B : Section I

Q24.	<p>Consider a given Series , S1:</p> <table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td style="border: 1px solid black; padding: 5px;">Index</td> <td style="font-size: 2em; padding: 0 10px;">{</td> <td border="1" style="border-collapse: collapse;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 100px;"></th> <th style="width: 100px;">Avg_Salary</th> </tr> </thead> <tbody> <tr> <td>UP</td> <td>5000</td> </tr> <tr> <td>MP</td> <td>6000</td> </tr> <tr> <td>Gujarat</td> <td>8000</td> </tr> <tr> <td>Delhi</td> <td>5500</td> </tr> </tbody> </table> </td> </tr> </table> <p>Write a program in Python Pandas to create the series.</p>	Index	{	<table border="1" style="border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 100px;"></th> <th style="width: 100px;">Avg_Salary</th> </tr> </thead> <tbody> <tr> <td>UP</td> <td>5000</td> </tr> <tr> <td>MP</td> <td>6000</td> </tr> <tr> <td>Gujarat</td> <td>8000</td> </tr> <tr> <td>Delhi</td> <td>5500</td> </tr> </tbody> </table>		Avg_Salary	UP	5000	MP	6000	Gujarat	8000	Delhi	5500	2
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Q25.		<p>State any two differences between single row functions and multiple row functions.</p> <p style="text-align: center;">OR</p> <p>What is the difference between the order by and group by clause? Explain with an example.</p>	2																																			
Q26.		<p>Consider the decimal number x with value 7459.3654. Write commands in SQL to:</p> <p>i) round it off to a whole number ii) round it to 2 places before the decimal.</p>	2																																			
Q27.		<p>Consider the following Series object, S</p> <table border="1" data-bbox="732 600 1024 758" style="margin-left: auto; margin-right: auto;"> <tr> <td>CPU</td> <td>5000</td> </tr> <tr> <td>Monitor</td> <td>4000</td> </tr> <tr> <td>Speaker</td> <td>800</td> </tr> <tr> <td>UPS</td> <td>2000</td> </tr> </table> <p>i) Write the command which will display the name of the items having rate >1000. ii) Write the command to name the series as Item.</p>	CPU	5000	Monitor	4000	Speaker	800	UPS	2000	2																											
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Q28.		<p>Shailly writes the following commands with respect to a table Employee having fields, empno, name, department, commission.</p> <p>Command1 : SELECT COUNT(*) FROM EMPLOYEE; Command2 : SELECT COUNT(COMMISSION) FROM EMPLOYEE;</p> <p>She gets the output as 7 for the first command but gets an output 5 for the second command. Explain the output with justification.</p>	2																																			
Q29.		<p>Consider the following SQL string: "SELFMOTIVATION". Write commands to display:</p> <p>a. "MOTIVATION" b. "MOT"</p> <p style="text-align: center;">OR</p> <p>Considering the same string "SELFMOTIVATION". Write SQL commands to display:</p> <p>a. the position of the substring 'MOTIV' in the string "SELFMOTIVATION" b. the last 6 letters of the string</p>	2																																			
Q30.		<p>Consider the following DataFrame, classframe</p> <table border="1" data-bbox="505 1730 1409 1940" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Rollno</th> <th>Name</th> <th>Class</th> <th>Section</th> <th>CGPA</th> <th>Stream</th> </tr> </thead> <tbody> <tr> <td>St1</td> <td>1</td> <td>Naresh</td> <td>IX</td> <td>A</td> <td>8.7</td> <td>Science</td> </tr> <tr> <td>St2</td> <td>2</td> <td>Lakshay</td> <td>XII</td> <td>B</td> <td>8.9</td> <td>Arts</td> </tr> <tr> <td>St3</td> <td>3</td> <td>Trapti</td> <td>X</td> <td>C</td> <td>9.2</td> <td>Science</td> </tr> <tr> <td>St4</td> <td>4</td> <td>Prakhar</td> <td>XI</td> <td>B</td> <td>9.4</td> <td>Commerce</td> </tr> </tbody> </table>		Rollno	Name	Class	Section	CGPA	Stream	St1	1	Naresh	IX	A	8.7	Science	St2	2	Lakshay	XII	B	8.9	Arts	St3	3	Trapti	X	C	9.2	Science	St4	4	Prakhar	XI	B	9.4	Commerce	2
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OR

Draw the following bar graph representing the number of students in each class.



Q37.

A relation SALESMAN is given below:

SNO	SNAME	SALARY	BONUS	DATEOFJOIN	AREA
A01	Kushagra Jain	30000	45.25	29-10-2019	Delhi
A02	Prakhar Sharma	50000	25.50	13-03-2018	Ajmer
B03	Trapti Singh	30000	35.00	18-03-2017	Jhansi
B04	Shailly	80000	45.00	31-12-2018	Delhi
C05	Lakshay Lawania	20000	10.25	23-01-1989	Jaipur
C06	Naresh	70000	12.75	15-06-1987	Ajmer
D07	Krishna Singh	50000	27.50	18-03-1999	Jhansi

Write SQL commands to perform the following operations:

- Count the number of salesman area-wise.
- Display the month name for the date of join of salesman of area 'Ajmer'
- Display the total salary paid to all salesman.

3

PART - B : Section III

Q38.

Write a program in Python Pandas to create the following DataFrame batsman from a Dictionary:

B_no	Name	Score1	Score2
1	Sachin	90	80
2	Dhoni	65	45
3	Kapil	70	90
4	Rahul	80	76

Perform the following operations on the DataFrame :

- Add both the scores of a batsman and assign to column "Total"
- Display the highest score in both Score1 and Score2 of the DataFrame.
- Display the DataFrame

5

Q39.	<p>Write the SQL functions which will perform the following operations:</p> <p>i) To display the name of the month of the current date. ii) To remove spaces from the beginning and end of a string, “ KV Sangathan “. iii) To display the name of the day eg, Friday or Sunday from your date of birth, dob. iv) To print the value of square root of 2 upto 2 decimal points. v) To compute the remainder of division between two numbers, n1 and n2</p> <p style="text-align: center;">OR</p> <p>Write SQL for question from (i) to (iv) and output for SQL queries (v) and (vi), which are based on the table: KV given below:</p> <table border="1" data-bbox="354 562 1404 909"> <thead> <tr> <th>KVCode</th> <th>KVName</th> <th>StationCode</th> <th>Region</th> <th>Zone</th> </tr> </thead> <tbody> <tr> <td>1603</td> <td>Bharatpur</td> <td>331</td> <td>Jaipur</td> <td>West</td> </tr> <tr> <td>1595</td> <td>Alwar</td> <td>324</td> <td>Jaipur</td> <td>West</td> </tr> <tr> <td>1596</td> <td>Alwar Itarana</td> <td>324</td> <td>Jaipur</td> <td>West</td> </tr> <tr> <td>1019</td> <td>Gandhidham IFFCO</td> <td>11</td> <td>Ahmedabad</td> <td>West</td> </tr> <tr> <td>1020</td> <td>Gandhidham Railway</td> <td>11</td> <td>Ahmedabad</td> <td>West</td> </tr> <tr> <td>1769</td> <td>Avadi AFS</td> <td>584</td> <td>Chennai</td> <td>South</td> </tr> <tr> <td>1702</td> <td>Uri</td> <td>390</td> <td>Jammu</td> <td>North</td> </tr> <tr> <td>1296</td> <td>Barnala AFS</td> <td>172</td> <td>Chandigarh</td> <td>North</td> </tr> </tbody> </table> <p>(i) Print the details of KVs whose StationCode between 300 and 500 (ii) Print the details of KVs whose name ends with AFS (iii) Print the details of KVs of Jaipur region (iv) Print the number of KVs Zone-wise (v) Select Region, count(KVName) from KV where Zone='West' group by Region (vi) Select * from KV where substr(KVName, 2, 3)='and' or StationCode=390;</p>	KVCode	KVName	StationCode	Region	Zone	1603	Bharatpur	331	Jaipur	West	1595	Alwar	324	Jaipur	West	1596	Alwar Itarana	324	Jaipur	West	1019	Gandhidham IFFCO	11	Ahmedabad	West	1020	Gandhidham Railway	11	Ahmedabad	West	1769	Avadi AFS	584	Chennai	South	1702	Uri	390	Jammu	North	1296	Barnala AFS	172	Chandigarh	North	5
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Q40.	<p>Global Infocom Ltd. is setting up the network in Jaipur. There are four departments Market, Fun, Legal, Sales.</p> <p>Distance between the departments is as under:</p> <table border="1" data-bbox="402 1430 1356 1896"> <tbody> <tr> <td>Market Dept to Fun Dept</td> <td>80 m</td> </tr> <tr> <td>Market Dept to legal Dept</td> <td>180 m</td> </tr> <tr> <td>Market Dept to Sales Dept</td> <td>100 m</td> </tr> <tr> <td>Legal Dept to Sales Dept</td> <td>150 m</td> </tr> <tr> <td>Legal Dept to Fun Dept.</td> <td>100 m</td> </tr> <tr> <td>Fun dept to Sales dept.</td> <td>50 m</td> </tr> </tbody> </table>	Market Dept to Fun Dept	80 m	Market Dept to legal Dept	180 m	Market Dept to Sales Dept	100 m	Legal Dept to Sales Dept	150 m	Legal Dept to Fun Dept.	100 m	Fun dept to Sales dept.	50 m	5																																	
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	<p>Number of computers :</p> <ul style="list-style-type: none">Market Dept : 20Legal Dept : 10Fun Dept : 50Sales Dept : 100 <p>i) Suggest a most suitable cable layout for the above connections.</p> <p>ii) Suggest the network type between the departments.</p> <p>ii) Suggest the most suitable building to place the server with suitable reason.</p> <p>iii) Suggest the placement of the following devices :</p> <ul style="list-style-type: none">a) Repeaterb) Hub/Switch <p>iv) The organization is planning to link its Head Office situated in 'New Delhi'. Which type of network out of LAN, MAN, WAN will be formed? Justify your answer.</p>	
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0-0-o- Best of Luck -o-0-0