| Name: <br> Enrolment No: |  |  |  |  |  | IIVERSITY WITH A PUR |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Course: Data Mining and Business Intelligence <br> Program: BBA (Digital Marketing) <br> Course Code: DSIT 3001 |  |  | ITY OF P <br> Semester E <br> elligence | $\begin{aligned} & \text { TROLI } \\ & \text { aminati } \end{aligned}$ | EUM \& E <br> ion (Onlin | RGY STUDIES $\text { - Dec, } 2020$ <br> Seme <br> Time: 03 <br> Max. | $100$ |  |
| IMPORTANT INSTRUCTIONS <br> 1. The student must write his/her name and enrolment no. in the space designated above. <br> 2. Use of calculator allowed. <br> 3. Differentiation in marks will be based on how adequately explanations are given and illustrated. |  |  |  |  |  |  |  |  |
| Q.No | SECTION A1. Each Question will carry 6 Marks2. Instruction: Complete the statement / Select the correct answer(s) - Any answershould not exceed 100 words |  |  |  |  |  | Marks | COs |
| 1. | Given the table: |  |  |  |  |  | 5 | CO1 |
|  | A | A | B | C | D | H |  |  |
|  | 1 | Name: | Surname: | Score | Class 1 | Counsellor |  |  |
|  | 2 | Kyle | Camber | 203 | ANT2365 | Lane |  |  |
|  | 3 | Macie | Cole | 214 | ANT2365 | Lane |  |  |
|  | 4 | Parker | Drumford | 102 | ANT2365 | Smith |  |  |
|  | 5 | Casey | Grant | 235 | ANT2365 | Smith |  |  |
|  | 6 | Julian | Gray | 156 | ANT2365 | Smith |  |  |
|  | 7 | Colin | Lamb | 86 | ANT2365 | Smith |  |  |
|  | 8 | Percey | Lovell | 126 | ANT2365 | Smith |  |  |
|  | 9 | Lenora | Marks | 110 | ANT2365 | Smith |  |  |
|  | 10 | Janey | Archford | 186 | COM102 | Lane |  |  |




| 4. | Fill in the blank from the following options <br> Customer Relationship Management (CRM) ensures customers, $\qquad$ and $\qquad$ at the centre of your organization. A customer life-cycle in CRM consists of $\qquad$ $\qquad$ and $\qquad$ phases <br> Options: acquisition/ data / profitability / database / customers / acquire/ enhance / target / retain | 5 | CO1 |
| :---: | :---: | :---: | :---: |
| 5. | True/False (With explanation. If false they explain why and if true then explain what it means. No marks without explanation) <br> No other variation of graph other than pie-chart can compare percentages of two different series in a dataset. | 5 | CO3 |
| 6. | True/False (With explanation. If false they explain why and if true then explain what it means. No marks without explanation) <br> Qualitative data may include both numerical and non-numerical data. | 5 | CO3 |
|  | SECTION B <br> 1. Each question will carry 10 marks <br> 2. Instruction: Any answer to the question should not exceed 350 words. Mention assumptions clearly if you are taking one <br> 3. No marks if steps are written in paragraphs or if the handwriting is illegible |  |  |
| 7. | Look at the following table: <br> a) What are the steps if you want to create a dropdown for the column "Gender" such that it allows only Male and Female as options? (5) <br> b) What are the steps if you want to the column "Score" allows decimal values between 0 and 100? (5) | 10 | CO 3 |
| 8. | a) What are the three different elements in a customer life cycle? (4 Marks) | 10 | CO1 |



|  | 1 <br> 2 <br> 3 <br> 4 <br> 5 <br> 6 <br> 7 <br> 7 <br> 8 <br> 9 <br> 10 <br> 11 <br> 12 <br> 13 <br> 14 <br> 15 | A <br> 2017 <br> 2018 <br> 2019 <br> 2020 <br> 2021 <br> 2022 <br> 2022 | B  <br> Bears D <br> 8  <br> 54  <br> 93  <br> 116  <br> 137  <br> 184  <br> 184  | C  <br> Dolphins Wh <br> 150  <br> 77  <br> 32  <br> 11  <br> 6  <br> 1  <br> 1  | Whales <br> 80 <br> 54 <br> 100 <br> 76 <br> 93 <br> 72 <br> 72 | F <br> 257 <br> - 2017 - 201 <br> - |  |  | $225$ $=2022=2022$ | K |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11. | Pivot Table: <br> Given the table below: |  |  |  |  |  |  |  |  |  |  | 10 | CO 2 |
|  | 1 | $\begin{gathered} \text { Sl. } \\ \text { No. } \end{gathered}$ | Name | Date of Joining | Designation | Basic <br> Salary | DA (90\% of Basic Salary) | HRA <br> (40\% of <br> Basic <br> Salary) | Variable <br> Salary | Gross <br> Monthly Salary |  |  |  |
|  | 2 | 1 | Avery But | t 3/7/2003 | Sr. Executive | Rs. $12,000.00$ | Rs. $10,800.00$ | Rs. 4,800.00 | Rs. 6,900.00 | Rs. $34,500.00$ |  |  |  |
|  | 3 | 2 | Ashley Le | - 6/2/2003 | Sr. Manager | Rs. $20,000.00$ | Rs. 18,000.00 | Rs. 8,000.00 | Rs. 23,000.00 | Rs. $69,000.00$ |  |  |  |
|  | 4 | 3 | Grace Gri | i $9 / 25 / 2007$ | 7 Executive | Rs. $10,000.00$ | Rs. 9,000.00 | Rs. 4,000.00 | Rs. 3,450.00 | Rs. $26,450.00$ |  |  |  |
|  | 5 | 4 | Aiden Joh | 11/7/2006 | 6 Manager | Rs. 15,000.00 | Rs. 13,500.00 | Rs. 6,000.00 | Rs. 13,800.00 | Rs. 48,300.00 |  |  |  |
|  | 6 | 5 | DylanSan | 9/18/2003 | 3 Manager | Rs. 15,000.00 | Rs. $13,500.00$ | Rs. 6,000.00 | Rs. 13,800.00 | Rs. $48,300.00$ |  |  |  |
|  | 7 | 6 | Ian Davis | 10/14/2010 | 10 Sr. Executive | Rs. $12,000.00$ | Rs. $10,800.00$ | Rs. 4,800.00 | Rs. 6,900.00 | Rs. $34,500.00$ |  |  |  |
|  | 8 | 7 | Hannah R | R 1/24/2008 | 8 Executive | Rs. $10,000.00$ | Rs. 9,000.00 | Rs. 4,000.00 | Rs. 3,450.00 | Rs. $26,450.00$ |  |  |  |
|  | 9 | 8 | Owen Sim | 10/26/2006 | 06 Manager | Rs. 15,000.00 | Rs. 13,500.00 | Rs. 6,000.00 | Rs. 13,800.00 | Rs. $48,300.00$ |  |  |  |
|  | 10 | 9 | Amelia 0 | 12/24/2004 | 204 Sr. Manager | Rs. 20,000.00 | Rs. 18,000.00 | Rs. 8,000.00 | Rs. 23,000.00 | Rs. $69,000.00$ |  |  |  |
|  | 11 | 10 | Katelyn A | A 1/22/2014 | 4 Sr. Manager | Rs. $20,000.00$ | Rs. $18,000.00$ | Rs. 8,000.00 | Rs. 23,000.00 | Rs. $69,000.00$ |  |  |  |
|  | 12 | 11 | Olivia Bry | 10/18/2010 | 10 Manager | Rs. 15,000.00 | Rs. 13,500.00 | Rs. 6,000.00 | Rs. 13,800.00 | Rs. $48,300.00$ |  |  |  |
|  | 13 | 12 | Henry Wa | a 10/20/2005 | Sr. Executive | Rs. 12,000.00 | Rs. $10,800.00$ | Rs. 4,800.00 | Rs. 6,900.00 | Rs. $34,500.00$ |  |  |  |
|  | 14 | 13 | Jacob Cru | 3/13/2009 | 9 Manager | Rs. 15,000.00 | Rs. $13,500.00$ | Rs. 6,000.00 | Rs. 13,800.00 | Rs. $48,300.00$ |  |  |  |
|  | 15 | 14 | Braydent | + 10/22/2010 | 10 Sr. Executive | Rs. 12,000.00 | Rs. $10,800.00$ | Rs. 4,800.00 | Rs. 6,900.00 | Rs. $34,500.00$ |  |  |  |
|  | 16 | 15 | Brandon F | F 11/15/2004 | 04 Sr. Manager | Rs. $20,000.00$ | Rs. 18,000.00 | Rs. 8,000.00 | Rs. $23,000.00$ | Rs. $69,000.00$ |  |  |  |
|  | 17 | 16 | Lauren M | 11/10/2003 | Executive | Rs. $10,000.00$ | Rs. 9,000.00 | Rs. 4,000.00 | Rs. 3,450.00 | Rs. $26,450.00$ |  |  |  |
|  | 18 | 17 | Mary Brac | 5/10/2011 | 1 Sr. Manager | Rs. $20,000.00$ | Rs. $18,000.00$ | Rs. 8,000.00 | Rs. $23,000.00$ | Rs. $69,000.00$ |  |  |  |
|  | 19 | 18 | Charles Li | - 9/16/2002 | 2 Sr. Manager | Rs. $20,000.00$ | Rs. 18,000.00 | Rs. 8,000.00 | Rs. 23,000.00 | Rs. $69,000.00$ |  |  |  |
|  | 20 | 19 | Robert $\mathrm{H}=$ | = 10/7/2002 | 2 Sr. Executive | Rs. $12,000.00$ | Rs. $10,800.00$ | Rs. 4,800.00 | Rs. 6,900.00 | Rs. $34,500.00$ |  |  |  |
|  | 21 | 20 | Jonathan | 4/30/2012 | 2 Sr. Manager | Rs. $20,000.00$ | Rs. 18,000.00 | Rs. 8,000.00 | Rs. 23,000.00 | Rs. $69,000.00$ |  |  |  |
|  | 22 | 21 | Taylor The | 11/3/2005 | 5 Executive | Rs. $10,000.00$ | Rs. 9,000.00 | Rs. 4,000.00 | Rs. 3,450.00 | Rs. $26,450.00$ |  |  |  |
|  | 23 | 22 | Brianna E | E $3 / 13 / 2012$ | 2 Executive | Rs. $10,000.00$ | Rs. 9,000.00 | Rs. 4,000.00 | Rs. 3,450.00 | Rs. $26,450.00$ |  |  |  |
|  | 24 | 23 | Andrea Hi | Hi 5/8/2012 | 2 Executive | Rs. 10,000.00 | Rs. 9,000.00 | Rs. 4,000.00 | Rs. 3,450.00 | Rs. $26,450.00$ |  |  |  |
|  | Provide the steps in details to get the following output: |  |  |  |  |  |  |  |  |  |  |  |  |






