

|  |
| --- |
| **Semester: II-April 2025****Maximum Marks: 50 Examination: End Sem Exam Date:** **Duration:1.5hrs / 2.5hrs**  |
| **Program code: 18****Program- MBA for WE** | **Class:** FY | **Semester: II (2nd ATKT)****Batch 1 (2023-24)** |
| **College:**  **K. J. Somaiya Institute of Management** | **Name of the department/Section/Center: Data Science and Technology** |
| **Course Code:**  | **Name of the Course:** Spreadsheet Modelling |
| **Instructions:** **Solve any five from the following****USE File SM\_Sheet.****Add a new worksheet in SM\_Sheet to solve the problem where the file name is not given or you want to create all pivot in new worksheet.** |

|  |  |  |
| --- | --- | --- |
| **Question No.** |  |  **Max.****Marks** |
| Q. 1 | CSS corporation has launched a new product. The fixed cost for the product is Rs. 10000. The variable cost per product is Rs. 12. The number of products produced till now is 500. The price of the product is decided to be Rs. 25. And the discount given is 10%.1. Find out total revenue generated from 500 products.
2. Find out the cost incurred for 500 products
3. Suppose we want to determine how many units must be sold to reach $20,000 of revenue.
4. Find out the number of products to be produced and sold to reach the breakeven point and the revenue at breakeven.
5. Find out the revenue reduction if we give 20% discount.
 | 10 Marks |
| Q. 2 | Use file **Q\_2 data and Q 2\_data for solving** and answer the following queries

|  |
| --- |
| 1. Use the table from sheet 2 and find out the type, product, category, price, and Commission for each transaction |
| 2. Find out the revenue generated region-wise and then show the percentage contribution |
| 3. Find out the commission paid and revenue generated yearly, quarterly, and monthly |
| 4. Find out the total commission paid channel-wise |
| 5. Find out the product-wise revenue we generated. Highlight the highest-selling product. |

 | 10 Marks |
| Q. 3 | Sale of food items of a different categories are given. Find out following things using file **Q3.xls**

|  |
| --- |
| 1. Find the Total Revenue of Asia
 |
| 1. Find the Total Count of European Region with Item Type: Beverages
 |
| 1. Find the Total Profit of Asia region with Country Malaysia and Item type Cereal
 |
| 1. Find the total count of offline sales
 |
| 1. Find the total count of offline sales in whose revenue is greater than 9000
 |
| 1. Find the total profit of baby food with high priority
 |
| 1. Find the Average Revenue of the given data
 |

 | 10 Marks |
| Q. 4 | Merry Keller is a math teacher at Washington High School. Mary wants an excel workbook that tracks student test scores for her trigonometry class. A student receives final letter grades for the course, which are determined by the total number of points they accumulate throughout the course. They are given four-hour tests, a midterm, a final, and four extra credit homework assignments. They can receive a maximum of 100 points for each of the four tests, 200 points for the midterm, 300 points for the final exam, and 25 points for each extra credit homework assignment. Thus, the total number of possible points for the course is 1000. letter grades are assigned as followsA 900 or more pointsB 800 – 899 pointsC 700 – 799 pointsD less than 700You have assigned the task of setting up assign points to the student as deem appropriate and find out total points gathered by each student. Assign a letter grade to each student. (Enter data for four students) | 10 Marks |
| Q. 5 | Following are the salaries of 5 employees. Find out total salary of these employees

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Pay Roll No**  | **Name**  | **Salary Rs.**  | **Part time Rs.**  | **Arrears**  |
| 1011  | Prasanna  | 10000  | 900  | 1800  |
| 1012  | Anitha  | 14000  | 800  | 1600  |
| 1013  | Ravi  | 18000  | 700  | 1700  |
| 1014  | Saritha  | 15000  | 600  | 1600  |
| 1015  | Mallika  | 17000  | 500  | 1800  |
| 1012  | Anitha  | 14000  | 800  | 1600  |

Using Conditional Formatting list out employees who got a) Less than Rs. 15000 as salary b) More than Rs. 700 as Part time c) Rs. 1600 as Arrears.d) total salary above Rs. 17000e) Highest Salaryf) Highlight the duplicate rowg) Lowest Salaryh) What is the average salary we are paying to our employeei) Find out how many are getting below-salaryJ) Who is getting the Salary | 10 Marks |
| Q. 6 | Use the file and perform the following (Q 6)

|  |
| --- |
| 1) How many males are in jobcategory 1 |
| 2) How many women are there with category 3 |
| 3) Find the three highest salary |
| 4) Find three lowest salary  |
| 5) Find the age of each employee as on 01/01/2018 or today |
| 6) Find job category-wise total salaries we are paying |
| 7) Find the total salary gender wise |
| 8) Find out the total people born before 01/01/1960 |

 | 10 Marks |