



# SADHU VASWANI INSTITUTE OF MANAGEMENT STUDIES FOR GIRLS

Unaided- Private, Linguistic Minority (Sindhi) Institute  
Approved by A.I.C.T.E. Certified under ISO 9001:2015

**Dr. B. H. Nanwani**  
Director

Affiliated to Savitribai Phule Pune University, NAAC Accredited with "B+" Grade  
**Institute Codes:** SPPU: IMMP016030, D.T.E.: 6614, AISHE: C-44578, AICTE: 1-21641511

## **MBA I – 2023-24** **116 GE - IL - 04 MS Excel**

1. CCE1 - Assignment/Test
2. Solution submitted by the student – Sample

**Sadhu Vaswani Institute of Management Studies for Girls**

**ACADEMIC YEAR 2023-24**

**MBA I – SEMESTER I**

**116 MS Excel**

**Test 1**

**Marks 25**

**Question 1**

**10 Marks**

M/s Alpha Ltd pays to its employees the salary on the basis of Basic pay. The Gross salary of an employee consists of Basic Pay, Dearness Pay (D.P) and House Rent Allowance (H.R.A). The components of salary are computed according to the following terms of contract of service:

- Dearness Allowance is paid @10% of basic pay subject to a maximum of Rs. 5400
- HRA is computed as per the following scale:

**Basic Pay HRA(Rs.)**

**Up to 20,000 is 5,000**

**From 20,001 to. 35,000 is 7,000**

**More than 35,000 is 9,000**

**Payroll format**

Emp Id	Name of the Employee	Department	Basic	DA	HRA	Gross
100	Alex	Computer	9000			
101	Rita	Finance	26000			
102	James	Electrical	12000			
103	Thomas	Finance	32000			
104	Sameer	Computer	40000			
105	Ramesh	Electrical	16000			
106	Jacob	Finance	55000			
107	Catherine	Computer	65000			
108	Emma	Finance	23000			
109	Amelia	Finance	29000			
110	Anna	Computer	54000			

**Required:**

M/s Alpha Ltd has decided to Automate the Payroll department and you are appointed as a consultant for performing the following tasks:

- a. Appraise a payroll of 10 employees of MIs Alpha Ltd for the month of Oct 2023, in the above format according to above terms of contract. – CO5 (7)
- b. Categorize and breakup the employees according to their departments? – CO4 (3)

Parameter	Satisfactory	Good	Very Good	CO
Design the payroll	Minimum 2 entries are found correct (2) Anything less than 2 will be marked 0	Minimum 4 entries are found correct (4)	Minimum 7 entries are found correct – (7)	CO 5 (7)
Categorization of Employees	Only 1 categorization is found correct – (1) None of the Categorization is correct (0)	Only 2 categorizations are found correct – (2)	All 3 categorization are found correct – (3)	CO4 (3)
<b>Total</b>				<b>10 Marks</b>

**Question 2****15 Marks**

Cookie Batter Company reported the following sales of cookies in Year 2022

Month	Sales (in \$)
Jan-22	1000
Feb-22	5482
Mar-22	8385
Apr-22	21811
May-22	10071
Jun-22	5297
Jul-22	4550
Aug-22	25870
Sep-22	17655
Oct-22	6573
Nov-22	25287
Dec-22	23584

**Analyse the above data and calculate**

- 1 a) The total sales in each Quarter (Q1 to Q4) Q1 - Jan-Mar etc.? CO3 (2)
- 1 b) Estimate the months which contributes to 80% of the total sales. CO5 (3)
- 2) Construct a Line Chart to show the Sales of the cookies for the year 2023 CO3 (2)
- 3) a) Construct a pivot table to show the Sales for each month as % of Grand total. CO3 (4)
- b) You are advised to rank the months as per sales generated. CO5 (4)

Parameter	Satisfactory	Good	Very Good	
The total sales in each Quarter (Q1 to Q4)	Sales for at least 1 quarter is calculated correctly (0.5)	Sales for at least 2 quarter is calculated correctly (1)	Sales in all 4 Quarters is calculated correctly (2)	CO3 (2)
Estimate the months which contributes to 80% of the total sales	Estimation is not Correct (0)	Formula is correct but month details are incorrect due to wrong data entered (1)	Estimation of all months contributing 80% sales is correct (3)	CO5 (3)
Line Chart to show the Sales of the cookies for the year 2023	Incorrect Line chart is constructed (0)	Line chart is incorrect due to incorrect data entered (1)	Correct Line chart is constructed (2)	CO3 (2)
pivot table to show the Sales for each month as % of Grand total	Pivot table is incorrect (0)	Formula is correct but data entry is incorrect (2)	Correct Pivot table is constructed (4)	CO3 (4)
rank the months as per sales generated	Min 3 months ranking is correct (1)	Min 6 months ranking is correct (2)	Ranking is correct for all 12 months (4)	CO5 (4)
<b>Total</b>				<b>15 Marks</b>

## Question 1:

Month	Rainfall(in mm)	Sugarcane(in quintals)
Jan	82	15
Feb	92.5	25
Mar	83.2	17
Apr	97.7	28
May	131.9	41
Jun	141.3	47
Jul	165.4	50
Aug	140	46
Sep	126.7	37
Oct	97.8	22
Nov	86.2	20
Dec	99.6	30
Jan	87	14
Feb	97.5	27
Mar	88.2	14
Apr	102.7	30
May	123	43
Jun	146.3	49
Jul	160	49
Aug	145	44
Sep	131.7	39
Oct	118	36
Nov	91.2	20
Dec	104.6	32

Q1.  $Y=a+b*X$ , where  $X=82\text{mm}$

X=	82
a=	-19.07410899
b=	0.45000132
	17.82599924

Q2. Calculate Regression Co-efficient

**SUMMARY OUTPUT**

<i>Regression Statistics</i>	
Multiple R	0.955
R Square	0.912
Adjusted R Square	0.907
Standard Error	3.607
Observations	23

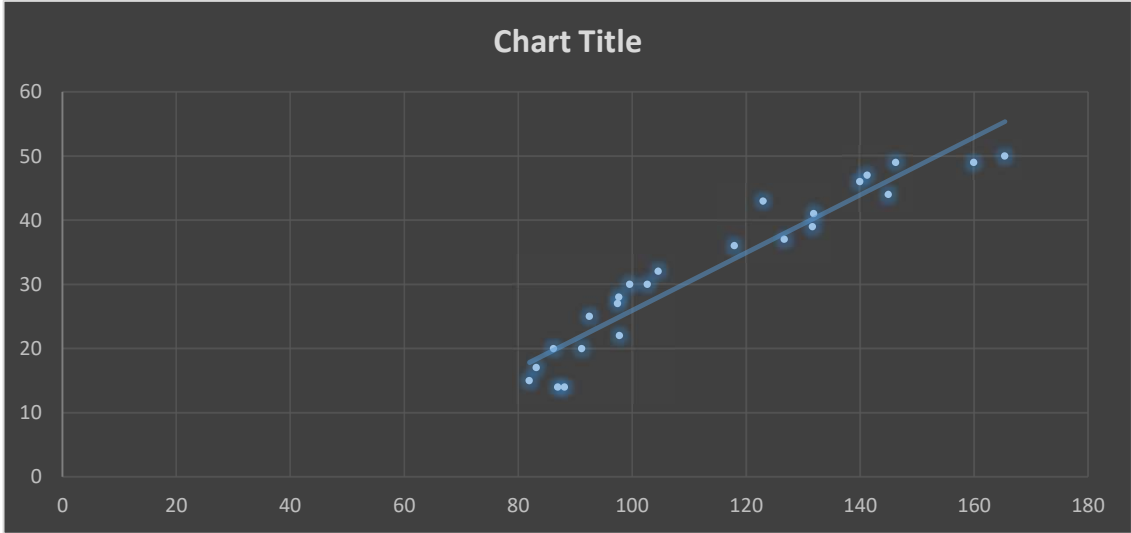
**ANOVA**

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	2819.733	2819.733	216.725	<b>0.000</b>
Residual	21	273.224	13.011		
Total	22	3092.957			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	<b>-18.188</b>	3.560	-5.108	0.000	-25.592	-10.783	-25.592	-10.783
82	<b>0.443</b>	0.030	14.722	0.000	0.381	0.506	0.381	0.506

Q3.

RESIDUAL OUTPUT



<i>Observation</i>	<i>Predicted 15</i>	<i>Residuals</i>
1	22.826	2.174
2	18.703	-1.703
3	25.132	2.868
4	40.296	0.704
5	44.464	2.536
6	55.149	-5.149
7	43.887	2.113
8	37.990	-0.990
9	25.176	-3.176
10	20.033	-0.033
11	25.974	4.026
12	20.388	-6.388
13	25.043	1.957
14	20.920	-6.920
15	27.349	2.651
16	36.350	6.650
17	46.681	2.319
18	52.755	-3.755
19	46.104	-2.104
20	40.207	-1.207
21	34.133	1.867
22	22.250	-2.250
23	28.191	3.809



Question: 2

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Themes Colors Fonts Effects Margins Orientation Size Print Area Breaks Background Print Titles Width: Automatic Height: Automatic Scale: 100% Gridlines View Print Headings View Print Bring Forward Send Backward Selection Pane Align Group Rotate

Q19

Project name	project duration	project start date	project last date
Kitchen Renovation	27	01-11-2023	28-11-2023

Task ID	Task Description	Task Duration	Start Date	End Date
1	Demolition	4	01-11-2023	05-11-2023
2	Install new tiles	2	06-11-2023	08-11-2023
3	Reroute current plumbing	2	09-11-2023	11-11-2023
4	Paint walls and ceiling	2	12-11-2023	14-11-2023
5	Install baseboards	1	15-11-2023	16-11-2023
6	Install fixtures	1	17-11-2023	18-11-2023
7	Place new appliances	1	19-11-2023	20-11-2023
8	Install new cabinetry	3	21-11-2023	24-11-2023
9	Install new lighting	1	25-11-2023	26-11-2023
10	Final delivery with customer	1	27-11-2023	28-11-2023