

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086.**

**COURSE CODE: 19AF/MC/CF54**

**B.COM A & F DEGREE EXAMINATION – NOVEMBER 2021**

**COMMERCE – SHIFT II**

**COURSE : MAJOR – CORE**

**PAPER : COMPUTER AIDED FINANCIAL ANALYSIS**

**TIME : 3 HOURS**

**MAX. MARKS: 100**

**SECTION – A**

**Answer all the questions:**

**(4 x 10 = 40)**

1. State Journalise the following transactions using Tally:

2017, Jan 1	Started business with cash	Rs. 50,000
2	Purchased goods from Sam	Rs. 50,000
2	Sold goods to Ram for cash	Rs. 50,000
31	Bought Furniture	Rs. 24,000
31	Paid Rent	Rs. 8,000.

2. Create a spreadsheet like the one below. Enter all the numbers.

- Make the grid around the cells visible.
- Insert the title “Monthly Budget” and center and merge it.
- Change the font to Times New Roman, size 14.
- Make the text white and the fill black.
- Insert the subtitle “January 2021 – June 2021.”
- Total the expenses at the bottom of each month.
- Widen columns if necessary so numbers can be seen.
- Find out the total expenses for each month
- Figure out the average for each row.

	A	B	C	D	E	F	G	H
1		January	February	March	April	May	June	Average
2	House Payment	750	750	750	750	750	750	
3	Charity	200	200	200	200	200	200	
4	Groceries	300	425	425	290	325	350	
5	Car Payment	300	300	300	300	300	300	
6	Gasoline	45	45	50	55	45	60	
7	Clothing	100	75	60	50	100	85	
8	Utilities	95	85	95	90	80	90	
9	Total							

3. Using Excel, prepare a comparative income statement of Vinayaka Travels Ltd., for the years ending 31<sup>st</sup> March 2020 and 2021 from the following:

	2020	2021
	Rs.	Rs.
Purchases less returns	80,000	1,50,000
Other direct expenses	20,000	50,000
Sales	1,80,000	2,60,000
Office expenses	20,000	25,000
Selling expenses	10,000	15,000
Finance expenses	10,000	8,000
Profit	40,000	12,000

4. (a) Calculate the future value of Rs. 40,000 invested now for a period of 4 years at a time preference rate of 10% (Use excel)  
 (b) Mr. Peter invests Rs. 1,00,000 in a bank at 10% for 5 years. Calculate the maturity Value if interest is compounded annually. Will he get more if interest is compounded half-yearly? (Use excel)

**Section B**

**Answer any three questions:**

**(3x20 =60)**

5. M From the following Trial Balance of M/s Sanjay and Keshav, you are required to prepare Trading, Profit and Loss account for the year ended 31<sup>st</sup> December 2013 and Balance Sheet on that date after taking into account the following additional information:

<b>Debit Balances</b>	<b>Rs.</b>	<b>Credit Balances</b>	<b>Rs.</b>
Opening Stock	180000	Sales	525000
Bills Receivable	80000	Rent	22000
Purchase	240000	Bills Payable	78000
Bad Debts	20000	Sundry Creditors	100000
Salary & Wages	24000	Capital Account:	
Discount	9000	Sanjay	500000
Carriage Inward	12000	Keshav	300000
Travelling Expenses	13000		
Cash in Hand	38000		
Furniture	280000		
Insurance	12000		
Land & Building	400000		
Postage & Telegram	7000		
Sundry Debtors	210000		
	1525000		1525000

**Adjustments:**

- Insurance paid in advance Rs. 3,000
  - Depreciation provided on Furniture at 10%
  - Salary and wages outstanding Rs. 6,000
  - Rent received in advance Rs. 5,000
  - Closing Stock as on 31.12.2013 Rs. 2,00,000
6. A company is considering an investment proposal to instal new milling controls. The project will cost Rs.50,000. The facility has a life expectancy of 5 years and no salvage value. The company tax rate is 35%. The firm uses straight line depreciation. The estimated profits before tax from the proposed investment proposal are as follows:

**Year Profit Before Depreciation and Tax**

1	Rs.10,000
2	Rs.11,000
3	Rs.14,000
4	Rs.15,000
5	Rs.25,000

Compute the following:

- Payback period
- Net present Value at 10% discount rate

7. (a) The productivity levels of a worker before and after a strike are believed to be dependent events. The weekly outputs of 10 workers before and after a strike are listed below. Test the null hypothesis that productivity remains unchanged against the alternative that it has increased at 5% level of significance:

Worker	1	2	3	4	5	6	7	8	9	10
Output before strike	85	90	88	79	95	86	89	85	91	84
Output after strike	91	91	87	88	98	94	93	80	90	90

- (b) A product is classified as 1st, 2nd, 3rd and 4th grade. The past performance of the plant shows that the respective proportions are 8:4:2:1. As a check on the run of the plant, 600 parts were examined and classified as follows:

Grade	1	2	3	4	Total
Frequency	340	130	100	30	600

Is there any evidence of a change in production standard?

8. The following table gives the aptitude test scores and productivity indices of 10 workers selected at random:

Aptitude Index	60	62	65	70	72	48	53	73	65	82
Productivity Index	68	60	62	80	85	40	52	62	60	81

Calculate the two regression equations and estimate the productivity index of a worker whose test score is 92.

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