

STELLA MARIS COLLEGE, (AUTONOMOUS) CHENNAI-86
(For candidates admitted during the academic year 2019-20 and thereafter)
COURSE CODE: 19CO/AC/BA35
B.COM CORPORATE SECRETARYSHIP DEGREE EXAMINATION
NOVEMBER 2022

COURSE : ALLIED CORE

COURSE TITLE: BUSINESS ANALYSIS AND REPORTING
USING COMPUTERS – PRACTICAL - A

TIME : 3 HOURS

MAX. MARKS: 100

SECTION – A

(4 x 5 = 20)

1. Using Excel functions, Calculate the present value of the following cash inflows

Year	Cash flow
1	Rs.1500
2	Rs.3000
3	Rs.4500
4	Rs.6000
5	Rs.9000

Discounting Factor - 12%.

2. The monthly income of ten families (in rupees) in a certain locality are given below:

Family	A	B	C	D	E	F	G	H	I	J
Income	30	70	10	75	500	8	42	250	40	36

Calculate mean, median, mode and standard deviation using Excel.

3. From the following data calculate Trend percentages:

Year	1999	2000	2001	2002	2003	2004
Purchases	1672	1789	1873	1923	2123	1463

4. Using Ms word, create a document as below and save it as Lily.doc:

The Lovely Lily

The lily has a long history. From the days of ancient Greece, where lilies graced the walls of the fresco, to the bouquet of today's high-fashion bride, where lilies cascade eloquently down interwoven with ivy and orchids, lilies have proven to be timeless.

Lilies bloom in a spectrum of colors, from the palest of pinks to the vibrancy of the deepest reds. Lilies can be deep in color or faint to mere hints of colors. Lilies can have solid colors or be variegated with complementary or contrasting colors. What adds to the drama of a lily is its center, which often emanates a rich glow of gold.

SECTION – B

(4 x 10 = 40)

5. Find the regression equations and the coefficient of correlation for the following data using Excel:

									(in metric tonnes)
Fertilizer used	15	18	20	24	30	35	40	50	
Productivity	85	93	95	105	120	130	150	160	

6. Find trend values from the following data by the 3 yearly moving average method using Excel:

Year	2012	2013	2014	2015	2016	2017	2018
Production	412	438	446	454	470	483	490

7. From the following profit and loss account and balance sheet of GM Industries, prepare Comparative and Common size income statements using Excel:

Profit & Loss Account			(Rupees in lakhs)		
Particulars	2018	2019	Particulars	2018	2019
To cost of goods sold	500	640	By Sales	700	900
To Operating expenses:					
Administrative	20	20			
Selling	30	40			
To Net Profit	150	200			
	700	900		700	900

8. From the following Balance Sheet of X Ltd., Prepare a Cash flow Statement for the year 2017 using Excel:

Liabilities	2016 Rs.	2017 Rs.	Assets	2016 Rs.	2017 Rs.
Share capital	2,00,000	4,00,000	Fixed Assets	4,00,000	4,00,000
Profit & Loss A/C	-	40,000	Investments (Short term)	1,00,000	2,40,000
5% Debentures	4,00,000	2,00,000	Inventories	1,60,000	2,00,000
Creditors	2,50,000	3,60,000	Debtors	30,000	60,000
			Cash	80,000	1,00,000
			P & L A/C	80,000	-
	8,50,000	10,00,000		8,50,000	10,00,000

Provision for depreciation at the end of 2006 was Rs. 1,00,000 and at the end of 2007 it was Rs. 1,20,000. During the year 2007, a machine costing Rs. 60,000 (accumulated depreciation Rs. 20,000) was sold for Rs. 32,000.

SECTION – C

(2 x 20 = 40)

9. A company is considering an investment proposal to install 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's tax rate is 55%. The firm uses straight line method of depreciation. The estimated profits before depreciation from the proposed investment proposal are as follows:

Year	1	2	3	4	5
Profits (Rs.)	10,000	11,000	14,000	15,000	25,000

Compute the following in Excel:

- Payback period
 - Net present value at 10% discount rate
 - Internal rate of return.
10. Create a powerpoint presentation highlighting your qualification, credentials and skills to be presented to your potential employer. (minimum 5 slides)

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SECTION – A

(4 x 5 = 20)

1. You are scheduled to receive Rs. 13,000 in two years. When you receive it, you will invest it for six more years at 8 percent per year. How much will you have in eight years? Use Excel.
2. From the following data calculate Trend percentages.

Year	2000	2001	2002	2003	2004	2005
Purchases	2781	2892	2132	3125	2574	1789
3. Calculate the mean, median and mode for the data given below:

3	8	14	30	36	28	16	10	5
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4. Using Ms word, create a document as below and save it as Bass_Magazine.doc:

BIG BASS MAGAZINE

Dear Miss Fisher:

It has come to my attention that you, Miss Fisher, like fishing. Every month *Big Bass* magazine includes features on the things that interest you, from fly fishing to trout behaviour. We regularly feature articles about fishing charters, as well as full-colour pictures of amazing fish.

Here at *Big Bass* magazine we feel that you might be interested in a subscription to our fine publication. We hope you are interested in this **special offer**. Don't let this one swim away!

Sincerely,

Edmund Forrester
Editor

SECTION – B

(4 x 10 = 40)

5. Using Excel, from the following data given below, find:
 - (a) The two regression equations
 - (b) The coefficient of correlation between the marks in Economics and Statistics
 - (c) The most likely marks in Statistics when marks in Economics are 30

Marks in Economics	25	28	35	32	31	36	29	38	34
Marks in Statistics	43	46	49	41	36	32	31	30	33
6. From the following profit and loss account and balance sheet of GM Industries, prepare Comparative and Common size statements using Excel:

Balance Sheet			(Rupees in lakhs)		
Liabilities	2018	2019	Assets	2018	2019
Preference Share Capital	300	300	Cash	50	70
Equity Share Capital	200	200	Debtors	300	450
Reserves	200	250	Stock	100	200
Bills Payable	50	75	Land	100	120
Tax Payable	100	150	Buildings	200	180
Creditors	150	200	Machinery	250	225
Debentures	100	150	Furniture	100	80
	1100	1325		1100	1325

7. With the following data for 60% activity, prepare a budget at 80% activity using excel:

Production at 60% capacity	-	600 units
Materials	-	Rs. 100 per unit
Labour	-	Rs. 40 per unit
Direct expenses	-	Rs. 10 per unit
Factory expenses	-	Rs. 40,000 (40% fixed)
Administration expenses	-	Rs. 30,000 (60% fixed)

8. The following series of observations is known to have a business cycle with a period of 4 years. Find the trend values by the moving average method using Excel.

Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Production	506	620	1036	673	588	696	1116	738	663	773	1189

('000 tons)

SECTION – C

(2 x 20 = 40)

9. Vaishnavi Metals Ltd. is considering two different investment proposals, X and Y. The details are as under:

	Proposal A (Rs.)	Proposal B (Rs.)
Investment Cost	1,90,000	4,00,000
CFAT Year 1	80,000	1,60,000
Year 2	80,000	1,60,000
Year 3	90,000	2,40,000

Tax rate – 50%, Depreciation – 20% on cost

Compute the following in Excel:

- Payback period
 - Net present value at 12% discount rate
 - Internal rate of return.
10. Create a powerpoint presentation about the degree programme that you are doing, highlighting the benefits and career prospects of the programme and also about the institution. (minimum 5 slides)
