FACULTY OF COMMERCE AND MANAGEMENT

hird Year First Semester Examination in Bachelor of Commerce/ Bachelor of mmerce (Specialization in Accounting and Finance)-2016/2017(November 2018)

(Proper/ Repeat/ Re-Repeat)

DAF 3043 Corporate Finance

) swer All Questions.

Time: Three (03) hours.

d culator Permitted.

e Table Attached.

i) financial statements of ABC plc Trading Company are given below:

The Income statement for the year ended 31.12.2017

	Rs. '000	Rs. '000
ales		2,000
ss : Cost of Sales:		***************************************
pening Stock	200	
vrchase	1,200	
	1,400	
ess: Closing Stock	300	1,100
ross Profit		900
dd: Investment Income		50
		950
ess: Operating expenses:		
Administration	300	and the second s
Selling & Distribution	200	n reconstruction of the second
Finance	30	530
perating Profit Before Tax	8	420
ess: Taxation		120
perating Profit After Tax		300

The Statement of Financial Position as at 31.12.2017

Assets	Rs. '000	Rs. V
Non- Current Assets:		
Property	950	
Plant and Machinery	400	
Motor Vehicles	150	
Furniture and Equipment	150	1.01
Current Assets:	100	1,6
Stocks	300	
Debtors	440	
Cash & Cash Equivalents	210	95
Total		2,60
Liabilities	- Allenand	4,00
Capital and Reserves		
Stated Ordinary Share Capital (88,000 shares)	880	/ser/
Stated 10% Preference Share Capital (3,000 shares)	300	
General Reserve	260	7- 7-11-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Accumulated Profits	400	404
Non-Current Liabilities	400	1,84
15% Debentures	*	
Current Liabilities		16
Creditors		
Tax Payable	280	
Dividends Payable	120	
Administrative expenses payable	150	
Total *	50	60
rotal		2,60

The Statement of Changes in Equity for the year ended 31.12.2017

ltems	Ordinary Shares	General Reserve	Accumula ted Profit	Total
	Rs. '000	Rs. '000	Rs. '000	Rs. '000
Balance as at 1.1.2017	880	210	300	1,300
Profit for 2017	-		300	300
General Reserve	-	50	(50)	-
Dividends (Ordinary & Preference)	-	-	(150)	(150)
Balance as at 31.12.2017	880	260	400	1,450

5he industrial average ratios are as follows:

ross Profit Margin (%)	43.50
et Profit Margin (After Tax) (%)	14.32
eturn on Assets (%)	10.75
eturn on Capital Employed (%)	15.53
eturn on Equity (%)	16.34
ptal Assets Turnover	0.82
at Assets Turnover	1.74
n-Current Assets Turnover	1.25
rrent Assets Turnover	3.35
ock Turnover (COS/AS)	4.50
ock Holding Period (Days)	80
ebtor Turnover	5.14
ebtor Collection Period (Days)	70
editor Turnover	4.23
reditors Payment Period (Days)	85

Current Ratio	1.60
Quick Ratio	1.12
Working Capital Ratio	0.45
Cash Ratio	0.25
Total Debt to Equity Ratio	0.70
Long Term Debt to Equity Ratio	0.31
Fixed Interest Coverage	19.52
Fixed Dividend Coverage	11.00
Gearing Ratio	0.25
Earnings Per Share (Rs.)	3.00
Dividend Per Share (Rs.)	1.32
Earnings Yield (%)	18.28
Dividend yield (%)	8.75
Price/Earnings ratio	4.50

The Average Market price of an ordinary share of the company was Rs.15 for 2017. All sales and purchases are on credit basis. The business operating days 360.

Required:

Calculate the relevant ratios for ABC plc for the above the financial year and evant the company's relative operating performance and financial position comparing industrial average ratios and pointing out the deficiencies and suggestimprovements.

(20 Ma

o2. (I) Suppose a person save in a bank Rs.20,000 a year for 5 years, and Rs.300 year for 7 years thereafter. What will these savings cumulate to at the end of years if the interest rate is 10% compounded annually?

(04 Mar

(II) A finance company advertises that it will pay a lump sum of Rs.400,000 at the of a year to investors who deposit monthly Rs.30,000. What is annual interest in this offer if it is compounded monthly?

(04 Mar

(III) Suppose a person wants to buy a motor car in five years. He estimates that vehicle will cost him Rs.5 million when he becomes ready to buy it. How money would he need to invest each year in an account bearing interest at the of 12 percent per year in order to accumulate to amount equivalent to the purpose of the motor vehicle?

(04 Mar

(IV) Suppose an investor estimates the receipt of cash flows of Rs.150,000 at the of each year for next 5 years and Rs.170,000 and Rs.200,000 respectively at end of years 6 and 7. Assuming a discount rate of 10% during the next 5 years 15% thereafter determine the present value of the cash inflows.

(04 Ma

(V) A firm has borrowed a bank loan of Rs.1 million from a bank. The loan requires five equal end - year payments of Rs.277,410 each towards the repayment of loan with interest. What interest rate does the bank charge? Prepare a loan amortization schedule.

(04 Marks)

(Total 20 Marks)

(I) Giggles Company plans to produce and sell 100,000 baby diapers during the next year at an average price of Rs.25 per unit. Variable manufacturing costs are estimated at Rs.10 per unit, and variable marketing costs at Rs.5 per unit to be sold. Fixed costs are estimated at Rs.500,000 for manufacturing and Rs.200,000 for marketing. There will be no year-end work-in-process inventory. Income taxes are ignored.

Required:

- (a) Calculate the company's Break-Even Points in units and rupees for the year.
- (b) How many units of baby diapers the company should sell in order to earn a net profit of Rs.200,000 during the year?
- (c) Suppose the Company estimates that variable manufacturing costs increases by 10 percent in the coming year. What will be impact on its Break-Even Point?
- (d) If the company's variable manufacturing costs do increase by 10 percent, what should the company do to maintain the same contribution margin ratio in the coming year?

(10 Marks)

GRP plc manufactures a line of electric fans that are sold in general hardware stores. The company's marketing manager, Mr.Bandara, has just received the sales forecast for the coming year 2019 for the GRP's three types of fans: Ceiling Fans, Pedestal Fans, and Cooling Fans. GRP has experienced considerable variations in sales volumes and variable costs over the past two years, and Bandara believes the forecast should be carefully evaluated from a cost-volume-profit viewpoint. The preliminary budget information for the year 2019 is as follows:

A ³	Ceiling Fans	Pedestal Fans	Coolin Fans
Unit Sales	1,000	700	300
Unit Selling Price (Rs)	3,000	4,000	3,500
Variable Manufacturing Cost per unit (Rs)	1,500	1,400	1,550
Variable Selling Cost per unit (Rs)	300	400	200

For the year 2019, GRP's fixed manufacturing overhead is budgeted Rs.1,000,000, and the company's fixed selling and administrative expenses a forecasted to be Rs.297,500. GRP has a tax rate of 20 percent.

Required:

- (a) Determine GRP Company's budgeted net income for the year 2019.
- (b) Assuming the sale mix remains as budgeted, determine how many units (nearest real whole figure) of each type of fans GRP must sell in order to be even in the year 2019.
- (c) After preparing the original estimates, management found that its total fixed or would decrease to Rs.1025,000, and the variable manufacturing cost and self-cost of Cooling Fans decreases by Rs.300 and Rs.50 per unit respectively due a modification of its manufacturing and selling strategy. In addition, management has learned that its Cooling Fans have been perceived as the best value on the market, and it can expect to sell two times as many Cooling Fans as each of other types of fans keeping the total units of 2,000 unchanged. Under the circumstances, determine how many units (in nearest real whole figure) of each type of fans GRP would have to sell in order to break even in the year 2019.

(10 Mari (Total 20 Mari

04. (I) The board of directors of CBK Constructors is considering the purchase of asial a construction of a children park. The purchase price for the site is Rs.250,000 construction of park will cost Rs.1250,000. The children park would be usable 10 years. The board hired a consultant, who estimated the net cash into Rs.250,000 each for first five years and Rs.300,000 each for the next fiveyer. The Company's cost of capital is 10 percent for this project.

Required:

5

00

- Calculate the Net Present Value (NPV) of the project. Should the board lii (a) approve the project based on the NPV?
- 00 00 (b) Calculate the Internal Rate of Return (IRR) of the project. Should the board approve the project based on the IRR?

(10 Marks)

The owner of Sun Shines restaurant is considering an expansion of the business.

- d He has identified two alternatives as follows:
- Build a new restaurant in the town
 - Buy and renovate an old building downtown for the new restaurant.

The projected cash flows from these two alternatives are shown below. The projects estimated life is 10 years for the first project and 5 years for the latter. Speciation of project is on straight line basis. The owner of the restaurant uses a 11 12 percent required rate of return. He will consider capital project only if they have a

payback period of five years or less. The owner also favors projects that exhibit an

accounting rate of return of at least 15 percent.

Investment Proposal	Cash Outflow: (Rs.)		Cash Inflows
	Time 0	Years1-5	Years 6-10
Town Restaurant	500,000	80,000	120,000
Downtown Restaurant	250,000	100,000	-

Required: Calculate the following for each alternative restaurant site:

- Net Present Value (a)
- Profitability Index (b)
- Discounted Payback Period (c)
- Accounting Rate of Return based on the average investment and average (d) profits in the projects.
- How do the two projects rank in terms of the above answers? (e)
- If the owner of the restaurant sticks to his criteria, which site will he choose? (f)

(10 Marks) (Total 20 Marks) 05. (I) The shares of PVC plc have an expected return of 22% and standard deviation. The shares of QIG plc have expected return of 24% and standard deviation as a beta of 0.86 and QIG plc 1.24. The correlation betwee returns from the shares of PVC and QIG is 0.72. The standard deviation market return is 20%.

Required:

- (a) Is investing in shares of QIG plc better than investing in shares of PVC plc?
- (b) If an investor invests 30% in shares of QIG plc and 70% in shares of PVC what will be the expected rate of return and the portfolio standard deviation?
- (c) What is the market portfolio's expected rate of return and how much is the free rate?
- (d) What is the beta of portfolio if PVC plc's weight is 70% and QIG plc is 30%?

(10 Mar

(II) An investor holds an investment on the bonds of SPC plc having a par value Rs.1000 each with coupon rate of 12% per annum payable annually and the maturity 10 years.

Required:

- (a) What is the value of a bond today if the market rate of return is equal to coup rate?
- (b) What will be the value of the bond if the market interest rate increases to 15% the end of two years?
- (c) What will be the value of the bond if the market interest rate decreases to 10% the end of five years?
- (d) If the value of the bond is Rs.1250 after six years from the date of issue, who would be the YTM of the bond?

(10 Mark

(Total 20 Mark

Present Value and Future Value Tables

Table A-1 Future Value Interest Factors for One Dollar Compounded at k Percent for n Periods: $FVIF_{k,n} = (1+k)^t$

Period 1	1%	2%	3%	4%	5%	6%	7%	8%		-					Periods	Service Committee	A.T. S. A.	1
	1.010	11020	0 1.030	1.040	0 1.0500		Marian Property of the Park		9%	7070	11	% 12	% 139	6 14	% 159	Ve 169	1000	
2	1.020	-	1000	9 1.081	6 1.1025		-			11100	-	00 1.12	00 1.13	-	17.		1	20
3 4	1.030	110011	11002	7 1.124	9 1.1576			111007		-	-	21 1.25	44 1.27		1110	11100		•
-	1.0406	1.002		5 1.169	1.2155			- 112001	1.2950		-	76 1.40	49 1.442		.102		-	
. 5	1.0510	1.1041	1.159	3 1.2167	1.2763		110100	1.3605	1.4116	1910		81 1.57	35 1.630				-	-
	-					1	1.4020	1.4693	1.5386	1.610	5 1.68	51 1.76	23 1.842		************		-	۰
6	1.0615	1	1.194	1.2653	1,3401	1.4185	1.5007	1.5869	-				1		2.011	4 2.100	3 2.4	ļ
7	1.0721	1.1487	1.229	1.3159	1.4071	1.5036	-	-	1.6771		-	1.97	38 2.082	0 2.195	0 2.313	1 2 420		
8	1.0829	1.1717	1.2668	1.3686	1.4775	1.5938	1	1.7138	1.8280			2 2.210	7 2.352		41010			×
9	1.0937	1.1951	1.3048	1.4233	1.5513	1.6895	1.8385	1.8509	1.9926	2.1436	2.304	5 2.476	0 2,658	-	21000	-	-	-
10	1.1046	1.2190	1.3439	1.4802		1.7908	1.9672	1.9990	2.1719	2.3579	2.558	0 2.773	1 3.0040			-		×
		-				1.,000	1.3072	2.1589	2.3674	2.5937	2.839	4 3.105		0.100.1				٠
11	1.1157	1.2434	1.3842	1.5395	1.7103	1.8983	2.1049	0.000							4.0430	6 4.4114	6.19	d
12	1.1268	1.2682	1.4258	1.6010	1.7959	2.0122	2.2522	2.3316	2.5804	2.8531	3,151	3,478	3.8359	4.226	4.6524	54470	2.0	
13	1.1381	1.2936	1.4685	1.6651	1.8856	2.1329	2.4098	2.5182	2.8127	3.1384	3.498	3.896	4.3345	4.8179	1000			۰
14	1.1495	1.3195	1.5126	1.7317	1.9799	2.2609	2.5785	2.7196	3.0658	3.4523	3.883	4.363		5.4924		-	4147	۰
15	1.1610	1.3459	1.5580	1.8009	2.0789	2.3966	2.7590	2.9372	3.3417	3.7975	4.3104	4.887		6.2613	0.1020	-		
						2.0000	2.7590	3.1722	3.6425	4.1772	4.7846	5.4736		7.1379	-		1	
22013/10	1.1726	1.3728	1.6047	1.8730	2.1829	2.5404	2.9522				N. Colorador			7.7075	0.13/1	9.2655	15.40	ă
200	1.1843	1.4002	1.6528	1.9479	2.2920	2.6928		3.4259	3.9703	4.5950	5.3109	6.1304	7.0673	8.1372	9.3576			
125 6280000	1.1961	1.4282	1.7024	2.0258	2.4066	2.8543	3.1588	3.7000	4.3276	5.0545	5.8951	6.8660	7.9861	9.2765	410010	10.748	18.48	
	1.2081	1.4568	1.7535	2.1068	2.5270	3.0256	3.3799	3.9960	4.7171	5.5599	6.5436	7.6900	9.0243	10.575	10.761	12.468	22.18	
20	1.2202	1.4859	1.8061	2.1911	2.6533	3.2071	3.6165	4.3157	5.1417	6.1159	7.2633	8.6128	10.197	12.056	12.375	14.463	26.62	
				-		0.2071	3.8697	4.6610	5.6044	6.7275	8.0623	9.6463	11.523	13.743	14.232	16.777	31.948	
Company of the compan	1.2324	1.5157	1.8603	2.2788	2,7860	3.3996	4.1406	-			any and		1	10.743	16.367	19.461	38.338	1
And Livery	.2447	1.5460	1.9161	2.3699	2.9253	3.6035		5.0338	6.1088	7.4002	8.9492	10,804	13.021	15.668	18.822			Į
	.2572	1.5769	1.9736	2.4647	3.0715	3.8197			6.6586	8.1403	9.9336	12.100	14.714	17.861		22.574	46.005	
3.30000	.2697	1.6084	2.0328	2.5633		4.0489		Charles and	7.2579	8.9543	11.026	13.552	16.627	20.362	21.645	26.186	55,205	
5 1	.2824	1.6406	2.0938	2.6658		4.2919			7.9111	9.8497	12.239	15.179	18.788	23.212	24.891	30.376	66.247	
						7.2313	5.4274	6.8485	8.6231	10.835	13.585	17.000	21.231	26.462	28.625	35.238	79,497	
No. 500 1		1.8114	2.4273	3.2434	4.3219	5.7435	7.0400						21,601	20,462	32,919	40.874	95,396	
	4166	1.9999	2.8139			-	Massacra to			17.449	22.892	29.960	39.116	50,950	00.010			
199		2.0399	2.8983	1	***************************************	-				28.102	38.575	52.800	72.069	98.100	66.212		237,375	
		2.2080	3.2620				A STATE OF THE STA		2.251	30.913	42.818	59.136			133.176	180.314	590.658	-
1.0	6446	2.6916	4.3839			-					65.001	93.051	-	111.834	153,152		708.502	
		and the state of	- 177			0.420	29.457 4	6.902 7	4.358 1	17.391	184.565	289.002	-	188.884 700.233	267.864	378.721		

Table A-2 Future Value Interest Factors for a One-Dollar Annuity Compouned at k Percent for n Periods: $FVIFA_{k,n} = [(1+k)^n \cdot f]/k$

Period	1%	2%	3%	4%	5%	6%	100			r Annuit			van. nedicional		chous:	FVIFA k,	= [(1+	k) .
1	1.0000	1.0200	1.030			070	7%	8%	9%	10%	11%	***************************************	-	-				
2	2.0100	2.0200	2.0300		11000	-	1.010	11000	11000	0 1.1000	-	1 20 710	100.10			-	20%	
3	3.0301	3.0604				210000	*		2.090	2.1000		100	-				1.200	
4	4.0604	4.1216				4.1500		0.240	1 3.278	3.3100						2.1600	2.200	
5	5.1010	5.2040	700000000000000000000000000000000000000			1.01.40			4.573		100	-101		-11000	-		3.6400	
	HART	Taille S		0.4103	3.5256	5.6371	5.7507	5.8666	5.9847	6.1051	6.2271	-		100	71000	010000	5.3680	
6	6.1520	6.3081	6.4684	6.6330		-					0.221	0.3320	6.4803	6.6101	6.7424	6.8771	7.4416	
7	7.2135	7.4343	7.6625			-10.00			7.5233	7.7156	7.9129	0 4450		-	A Employee			T
8	8.2857	8.5830	8.8923	7.0000	0.1420			8.9228	9.2004		9.7833			8.5355	-11.001	8.9775	9.9299	1
9	9.3685	9.7546	10.159	ALTE LAT	100	210010	10.260	10.637	11.028		11.859	-	10.400	101100		11.414	12.916	-
10	10.462	10.950	11.464	10.000		11111111	11.978	12.488	13.021	13.579	14.164	-	12.757	13.233	13.727	14.240	16.499	-
			11.404	12.006	12.578	13.181	13.816	14.487	15.193	15.937	16.722	-	15.416	16.085	16.786	17.519	20.799	-
11	11.567	12.169	12,808	12.400	-	-			-	1	10.722	17.549	18.420	19.337	20.304	21.321	25.959	
12	12.683	13.412	14.192	13.486	14.207	14.972	15.784	16.645	17.560	18.531	19.561	20.000	-				-	T
13	13.809	14.680	15.618	15.026	15.917	16.870	17.888	18.977	20.141	21.384	22.713	20.655	21.814	23.045	24.349	25.733	32.150	4
14	14.947	15.974	17.086	16.627	17.713	18.882	20.141	21.495	22.953	24.523		24.133	25.650	27.271	29.002	30.850	39.581	5
15	16.097	17.293	18,599	18.292	19.599	21.015	22.550	24.215	26.019	27.975	26.212	28.029	29.985	32.089	34.352	36.786	48.497	
		11.200	10.599	20.024	21.579	23.276	25.129	27.152	29.361	31.772	30.095	32.393	34.883	37.581	40.505	43,672	59,196	-
16	17.258	18.639	20.457	-			and the second			01.112	34.405	37,280	40.417	43.842	47.580	51.660	72.035	100
17	18.430	20.012	20.157	21.825	23.657	25,673	27.888	30.324	33.003	35,950	20.400	-			W. 1 - 200 X		7 4.440	10
200	19.615	21.412	21.762	23.698	25.840	28.213	30.840	33.750	36.974	40.545	39,190	42.753	46.672	50.980	55.717	60.925	87.442	10
A Transaction	20.811	22.841	23.414	25.645	28.132	30.906	33,999	37.450	41.301	45.599	44.501	48.884	53.739	59.118	65.075	71.673	105.931	-
12.000	22.019	24.297	25.117	27.671	30,539	33.760	37.379	41.446	46.018		50.396	55.750	61.725	68.394	75.836	84.141		
1999	-2.010	64.23/	26.870	29.778	33.066	36.786	40.995	45.762	51.160	51.159	56,939	63,440	70.749	78.969	88.212	98,603	128,117	19
1	23.239	25.783	On and						21.100	57.275	64.203	72.052	80.947	91.025	102.444	115.380	154.740	24
SU 1.3888	24.472	27.299	28.676	31.969	35.719	39.993	44.865	50.423	56.765	04.000						10,000	186.688	20
			30.537	34.248	38.505	43.392	49.006	55.457	62.873	64.002	72.265	81.699	92.470	104.768	115 610	134.841	225 020	-
0.000000		28.845	32,453	36.618	41.430	46.996	53.436	60.893	69.532	71.403	81.214	92.503	105.491	120.436	137.632		225.026 271.031	
		30.422	34.426	39.083	44.502	50.816	58.177	66.765	-	79.543	91.148	104.603	120.205	138.297	159.276	-		
	20.243	32.030	36.459	41.646	47.727	54.865	63.249	73.106	76.790		102.174	118.155	136.831	158.659	184.168	-	326.237	
3	14 700						- U.A.TU	73.100	84.701	98.347	114.413	133,334	155.620		212.793	-	392.484	72
		40.568	47.575	56.085	66.439	79.058	94.461	442 202						-	~12.133	249.214	471.981	89
	2/30/14/2	49.994	60.462	73.652	90.320		-		136.308		199.021	241.333	293.199	356.787	434.745	E20 245		
		51.994	63.276	77.598		718					341.590			693.573	881.170	530.312		
		60.402	75.401	95.026				2100			380.164		1111	791.673	001.170		•	
6	4.463	84.579	112.797		-	-			337.882 815.084	442.593	581.826	767.091	*	*				39

Table A-3 Present Value Interest Factors for One Dollar Discounted at k Percent for n Periods: $PVIF_{k,n} = 1/(1+k)^n$

13	100000000000000000000000000000000000000		ISSN VALUE OF	****	D0/ A	7%	8%	9%	10%	11%	12%	13%	14%	15%	16%	20%	24%	25%	30%
CVIVE	2%	3%	. 4%	5%	6%2		0.9259	0.9174	0.9091	0.9009	0.8929	0.8850	0.8772	0.8696	0.8621	0.8333	0.8065	0,8000	0.7692
24%		0.9709	0.9615	0.9524	0.9434	0.9346	0.8573	0.8417	0.8264	0.8116	0.7972	0.7831	0.7695	0.7561	0.7432	0.6944	0.6504	0.6400	0.5917
2400	-	0.9426	0.9246	0.9070	0.8900	0.8734	0.8573	0.7722	0.7513	0.7312	0.7118	0.6931	0.6750	0.6575	0.6407	0.5787	0.5245	0.5120	0.4552
5376		0.9151	0.8890	0.8638	0.8396		0.7350	0.7084	0.6830	0.6587	0.6355	0.6133	0.5921	0.5718	0.5523	0.4823	0.4230	0.4096	0.3501
9066	0.9238	0.8885	0.8548	0.8227	0.7921	0.7629	0.6806	0.6499	0.8209	0.5935	0.5674	0.5428	0.5194	0.4972	0.4761	0.4019	0.3411	0.3277	0.2693
3642	0.9057	0.8626	0.8219	0.7835	0.7473	0.7130	0.0000	0,0433	0.0205	0.0000	7					Jane - ree		NAME OF THE PARTY OF THE	
9316			0.7000	0.7400	0.7050	0.6663	0.6302	0,5963	0.5645	0.5346	0.5066	0.4803	0.4556	0.4323	0.4104	0.3349	0.2751	0.2621	0.2072
200	0.8880	0.8375	0.7903	0.7462	0.6651	0.6227	0.5835	0.5470	0.5132	0.4817	0.4523	0.4251	0.3996	0.3759	0.3538	0.2791	0.2218	0.2097	0.1594
352	0.8706	0.8131	0.7599	0.7107	0.6274	0.5820	0.5403	0.5019	0.4665	0.4339	0.4039	0.3762	0,3506	0.3269	0.3050	0.2326	0.1789	0.1678	0.1226
077	0.8535	0.7894	0.7307	0.6768	0.5274	0.5439	0.5002	0.4604	0.4241	0,3909	0.3606	0.3329	0.3075	0.2843	0.2630	0.1938	0.1443	0.1342	0.0943
895	0.8368	0.7664	0.7026	0.6446	0.5584	0.5083	0.4632	0.4224	0.3855	0.3522	0.3220	0.2946	0.2697	0.2472	0.2267	0.1615	0.1164	0.1074	0.0725
310	0.8203	0.7441	0.6756	0.6139	0.5564	0.0003	0,4632	0.4224	0.0000	0.002.2			-						IN DIACONTO
944			0.0400	0.5047	0.5268	0.4751	0,4289	0.3875	0.3505	0.3173	0.2875	0.2607	0.2366	0.2149	0.1954	0.1346	0.0938	0.0859	0.0558
-	0,8043	0.7224	0.6496	0.5847	0.4970	0.4440	0.3971	0.3555	0.3186	0.2858	0.2567	0.2307	0.2076	0.1869	0.1685	0.1122	0.0757	0.0687	0.0429
357	0.7885	0.7014	0.6246		0.4688	0.4150	0.3677	0.3262	0.2897	0.2575	0,2292	0.2042	0.1821	0.1625	0.1452	0.0935	0.0610	0.0550	0.0330
215	0.7730	0.6810	0.6006	0,5303		0.3878	0.3405	0.2992	0.2633	0.2320	0.2046	0.1807	0,1597	0.1413	0.1252	0.0779	0.0492	0.0440	0.0254
186	0.7579	0.6611	0.5775	0.5051	0.4423	0.3624	0.3152	0.2745	0.2394	0.2090	0.1827	0.1599	0.1401	0.1229	0.1079	0.0649	0.0397	0.0352	0.0195
19	0.7430	0.6419	0.5553	0.4810	0.4173	0.3024	0.3102	0.2140	0,2004	0.6000	311221								
96			2.0000	0.4504	0.2020	0.3387	0.2919	0.2519	0.2176	0.1883	0.1631	0.1415	0.1229	0.1069	0.0930	0.0541	0.0320	0.0281	0.0150
-	0.7284	0.6232	0.5339	0.4581	0,3936	0.3367	0.2703	0.2311	0.1978	0.1696	0.1456	0.1252	0.1078	0.0929	0.0802	0.0451	0.0258	0.0225	0.0115
43	0.7142	0.6050	0.5134	0.4363	1	0.2959	0.2502	0.2120	0.1799	0.1528	0.1300	0.1108	0.0946	0.0808	0.0691	0.0376	0.0208	0.0180	0.0089
41	0.7002	0.5874	0.4936	0,4155	0.3503			0.1945	0.1635	0.1377	0.1161	0.0981	0.0829	0.0703	0.0596	0.0313	0.0168	0.0144	0.0068
39	0.6864	0.5703	0.4746	0,3957	0.3305	0.2765	0.2317	0.1945	0.1635	0.1240	0.1037	0.0868	0.0728	0.0611	0.0514	0.0261	0.0135	0.0115	0.0053
88	0.6730	0.5537	0.4564	0.3769	0.3118	0.2564	0.2145	0,1704	0.1400	0.1240	0.1001	0,000				64500	V 2000	AN HARRIST TO	
84_				0.0000	0.2942	0.2415	0.1987	0,1637	0.1351	0.1117	0.0926	0.0768	0.0638	0.0531	0.0443	0.0217	0.0109	0.0092	0.0040
1	0.6598	0.5375	0.4388	0.3589	0.2942	0.2257	0.1839	0.1502	0.1228	0.1007	0.0826	0.0680	0.0560	0.0462	0.0382	0.0181	0.0088	0.0074	0.0031
2	0.6468	0.5219	0.4220	0.3418	0.2618	0.2109	0.1703	0.1378	0.1117	0.0907	0.0738	0.0601	0.0491	0.0402	0.0329	0.0151	0.0071	0.0059	0.0024
741	0.6342	0.5067	0.4057	0.3256	0.2470	0.1971	0.1577	0.1264	0.1015	0.0817	0.0659	0.0532	0.0431	0.0349	0.0284	0.0126	0.0057	0.0047	0.0018
311	0.6217	0.4919	0.3901	0.2953	0.2330	0.1842	0.1460	0.1160	0.0923	0.0736	0.0588	0.0471	0.0378	0.0304	0.0245	0.0105	0.0046	0.0038	0.0014
11	0.6095	0.4776	0.3751	0.2933	0.2000	0.1042	0.1400	0.1100	0.000										
2	0.0000	0.4400	0.2002	0.2314	0.1741	0.1314	0.0994	0.0754	0.0573	0.0437	0.0334	0.0256	0.0196	0.0151	0.0116	0.0042	0.0016	0.0012	
3	0.5521	0.4120	0.3083	0.2314	0.1741	0.1314	0.0676	0.0490	0.0356	0.0259	0.0189	0,0139	0.0102	0.0075	0.0055	0.0017	0.0005		
0 9	0.5000	0.3554	0.2534	0.1727	0.1301	0.0875	0.0626	0.0449	0.0323	0.0234	0.0169	0.0123	0.0089	0.0065	0.0048	0.0014			*
-	0.4902	0,3450	0.2437		0.1227	0.0668	0.0460	0.0318	0.0221	0.0154	0.0107	0.0075	0.0053	0.0037	0.0026	0.0007			*
17	0.4529	0.3066	0.2083	0.1420	0.0543	0.0888	0.0450	0.0318	0.0085	0.0054	0.0035	0.0022	0.0014	0.0009	0.0006			•	^
80	0.3715	0.2281	0.1407	0.0072	0.0343	0,0000	1 0.0210	5.5104	1	1				Account to the last of the las			COVERNMENT CO.	Carrie Votal (S)	Some States

Table A-4 Present Value Interest Factors for a One-Dollar Annuity Discounted at k Percent for n Periods: PVIFA = [1 - 1/(1 + k)^n] / k

_				200				201	400/	4497	12%	13%	14%	15%	16%	20%	24%	25%	30%
1	2%	3%	4%	5%	8%	7%	8%	9%	10%	11%	and the second s	0.8850	0.8772	0.8696	0.8621	0.8333	0.8065	0.8000	0.7692
11	0.9804	0.9709	0,9615	0.9524	0.9434	0.9346	0.9259	0.9174	0.9091	0.9009	0.8929		1.6467	1.6257	1.6052	1.5278	1,4568	1.4400	1.3609
14	1.9416	1.9135	1.8861	1.8594	1.8334	1.8080	1.7833	1.7591	1.7355	1.7125	1.6901	1.6681	2,3216	2.2832	2.2459	2.1065	1,9813	1,9520	1.8161
10	2.8839	2.8286	2.7751	2.7232	2.6730	2.6243	2.5771	2.5313	2.4869	2.4437	2.4018	2.3612	2.9137	2.8550	2,7982	2.5887	2,4043	2.3616	2.1662
10	3.8077	3,7171	3.6299	3.5460	3.4651	3.3872	3.3121	3.2397	3.1699	3,1024	3.0373	2.9745	3,4331	3.3522	3.2743	2.9906	2.7454	2.6893	2,4356
34	4.7135	4.5797	4.4518	4.3295	4.2124	4.1002	3.9927	3,8897	3.7908	3.6959	3.6048	3.5172	3.4331	3.3322	3.2143	2.0000	4.1704	2,0000	
												0.0075	3.8887	3.7845	3.6847	3.3255	3.0205	2,9514	2.6427
55	5.6014	5.4172	5.2421	5.0757	4.9173	4.7665	4.6229	4,4859	4.3553	4,2305	4.1114	3.9975		4.1604	4.0386	3,6046	3.2423	3,1611	2.8021
12	6.4720	6.2303	6.0021	5.7864	5.5824	5.3893	5.2064	5,0330	4.8684	4.7122	4.5638	4.4226	4.2883		4.3436	3.8372	3.4212	3.3289	2.9247
17	7.3255	7.0197	6.7327	6.4632	6,2098	5.9713	5.7466	5.5348	5.3349	5.1461	4.9676	4.7988	4.6389	4.4873	4.6065	4.0310	3.5655	3,4631	3.0190
63	8.1622	7.7861	7.4353	7.1078	6.8017	6.5152	6.2469	5.9952	5.7590	5.5370	5.3282	5.1317	4.9464		4.8332	4,1925	3,6819	3,5705	3.0915
13	8.9826	8.5302	8.1109	7.7217	7.3601	7.0236	6.7101	6.4177	6.1446	5.8892	5.6502	5,4262	5.2161	5,0188	4.0332	4.1523	3.0015	3.01 00	0.0010
						51755				5755555				C 0007	5.0286	4.3271	3.7757	3,6564	3.1473
53	9.7868	9.2526	8.7605	8.3064	7.8869	7.4987	7.1390	6.8052	6.4951	6.2065	5.9377	5.6869	5.4527	5.2337	Major w Trans	4,4392	3,8514	3,7251	3.1903
55	10.575	9.9540	9,3851	8,8633	8.3838	7.9427	7.5361	7.1607	6.8137	6.4924	6.1944	5,9176	5.6603	5.4206	5,1971	4.5327	3.9124	3.7801	3.2233
34	11.348	10.635	9.9856	9.3936	8.8527	8.3577	7.9038	7.4869	7.1034	6.7499	6.4235	6.1218	5.8424	5.5831	5.3423	And the later of t	3.9616	3.8241	3,2487
04	12.106	11.296	10.563	9.8986	9,2950	8.7455	8.2442	7.7862	7.3667	6.9819	6.6282	6.3025	6.0021	5.7245	5.4675	4.6106	4.0013	3.8593	3.2682
65	12.849	11.938	11.118	10.380	9.7122	9,1079	8,5595	8.0607	7.6061	7.1909	6.8109	6.4624	6.1422	5.8474	5,5755	4.6755	4.0013	3.0090	3.2002
			esono y															3.8874	3,2832
18	13.578	12.561	11.652	10.838	10.106	9,4466	8.8514	8.3126	7.8237	7.3792	6.9740	6.6039	6.2651	5.9542	5.6685	4.7296	4.0333	3.9099	3.2948
62	14.292	13.166	12.166	11.274	10.477	9,7632	9.1216	8.5436	8.0216	7.5488	7.1196	6.7291	6.3729	6.0472	5.7487	4.7746	4.0591		-
198	14.992	13.754	12.659	11.690	10.828	10.059	9.3719	8.7556	8.2014	7.7016	7.2497	6.8399	6.4674	6.1280	5.8178	4.8122	4.0799	3.9279	3,3037
26	15.678	14.324	13.134	12.085	11.158	10.336	9,6036	8.9501	8.3649	7.8393	7.3658	6.9380	6.5504	6.1982	5.8775	4.8435	4.0967	3.9424	3.3105
146	16.351	14.877	13.590	12.462	11.470	10.594	9.8181	9.1285	8.5136	7.9633	7.4694	7.0248	6.6231	6.2593	5.9288	4.8696	4.1103	3.9539	3,3158
														4 4 1 4 7	5.0704	4.8913	4,1212	3.9631	3,3198
67	17.011	15,415	14.029	12.821	11.764	10.836	10.017	9,2922	8.6487	8.0751	7.5620	7.1016	6.6870	6.3125	5.9731	-	-	3.9705	3,3230
60	17.658	15.937	14.451	13.163	12.042	11.061	10.201	9.4424	8.7715	8.1757	7.6446	7.1695	6.7429	6.3587	6.0113	4.9094	4.1300	3.9764	3,3254
156	18.292	16.444	14.857	13.489	12.303	11.272	10.371	9.5802	8,8832	8.2664	7.7184	7.2297	6.7921	6.3988	6.0442	4.9245	4.1371	3.9811	3.3272
243	18.914	16.936	15.247	13.799	12.550	11.469	10.529	9.7066	8.9847	8.3481	7.7843	7.2829	6,8351	6,4338	6.0726	4.9371	4.1428		3.3286
23	19.523	17.413	15.622	14.094	12.783	11.654	10.675	9.8226	9.0770	8.4217	7.8431	7,3306	6.8729	6.4641	6.0971	4.9476	4.1474	3.9849	3.3200
			47,000	45.070	40.705	42.400	11.258	10.274	9,4269	8,6938	8.0552	7.4957	7.0027	6.5660	6.1772	4,9789	4.1601	3.9950	3.3321
108	22,396	19,600	17.292	15.372	13.765	12.409		-	9.6442	8.8552	8,1755	7.5856	7.0700	6,6166	6.2153	4,9915	4.1644	3.9984	3.3330
109	24.999	21.487	18.665	16.374	14.498	12.948	11,655	10.567	-	8.8786	8,1924	7.5979	7.0790	6.6231	6,2201	4.9929	4.1649	3.9987	3.3331
108	25.489	21.832	18.908	16.547	14,621	13.035	11.717	10.612	9.6765	-	8.2438	7.6344	7.1050	6.6418	6,2335	4.9966	4.1659	3,9995	3.3332
135	27,355	23.115	19.793	17.159	15.046	13.332	11.925	10.757	9.7791	8,9511	8.2438	7,6752	-	6.6605	6.2463	4.9995	4.1666	3,9999	3,3333
196	31.424	25.730	21.482	18.256	15.762	13,801	12.233	10.962	9.9148	9.0417	0.3045	1.0/32	1.1021	0,0000	0.2700	4.0000	1		