

UNIVERSITI KUALA LUMPUR BUSINESS SCHOOL

FINAL EXAMINATION MARCH 2024 SEMESTER

COURSE CODE

: EIB11503

COURSE NAME

: MANAGERIAL FINANCE

PROGRAMME NAME

: BACHELOR OF BUSINESS ADMINISTRATION (HONS)

IN ISLAMIC FINANCE

DATE

: 1 JULY 2024

TIME

: 9.00 AM - 12.00 PM

DURATION

: 3 HOURS

INSTRUCTIONS TO CANDIDATES

- 1. Please CAREFULLY read the instructions given in the question paper.
- 2. This question paper has information printed on both sides of the paper.
- 3. This question paper consists of FOUR (4) questions.
- 4. Answer ALL question.
- 5. Please write your answers on the answer booklet provided.
- 6. All questions must be answered in **English** (any other language is not allowed).
- 7. Formulas and tables have been appended for your reference.
- 8. This question paper must not be removed from the examination hall.

THERE ARE FOURTEEN (14) PAGES OF QUESTIONS, INCLUDING THIS PAGE.

INSTRUCTION: Answer ALL questions.

Please use the answer booklet provided.

Question 1

Establish in 1990, Ajeez Dates is a well – known company as a leading importer and distributor of dried fruits and nuts, dates and other Middle East snacks and foods. In the year 2020, Ajeez Dates has been nominated as the Top Malaysian Brand Award. Mr Paa and Mr Muke are the owners of the business and planning to increase the sales by next year. Since the economy is getting better after the pandemic, Mr. Paa and Mr Muke are planning to introduce a new product to the market. With this new product, they forecast that the sales will increase to RM 2,500,000 by next year. Mr. Paa expects that the cost will be a fixed proportion of sales and the company will be running at full capacity. The interest payment is expected to increase as well since the central bank decided to increase variable financing rate. Business tax will remain the same at 40% for next year. They intend not to change the dividend payout ratio for the coming year. The company's Profit and Loss (P&L) statement and Statement of Financial Position (SOFP) are shown below.

Ajeez Dates
Profit and Loss Statement for year ended 2023
RM ('000)

		(000)
Sales		2,000
COGS		(1,800)
EBIT		200
Interest		(40)
EBT		160
Tax - 40%	_	(64)
Net Income		96
Dividends		64
Addition to Re	etain Earnings	32

Ajeez Dates Statement of Financial Position for year ended 2023

- 10111111111111			
ASSETS	RM	LIABILITIES	RM
Current Assets		Current Liabilities	
Cash	500	Account Payable	300
Account Receivable	300	Notes Payable	200
Inventories	900	Long - Term Debt	1,000
Total Current Asset	1,700	Total Liabilities	1,500
Fixed Asset		Stockholders' Equity	
Net Plant and Equipment	1,400	Common Stock	600
		Retained Earning	1,000
Total Asset	3,100	Total Liabilitles and Equity	3,100

(a) Before making any impulsive decision, Mr. Paa requires you to calculate the maximum growth rate and the expected sales as well that can be achieved without using any external financing. Can the expected sales be achieved with those rates? Advise your CFO regarding this matter.

(5 marks)

(b) Mr Muke agrees with your recommendation and requests you to calculate the gap by preparing a pro forma statement and submit it at the next meeting. If the additional amount is more than RM 1 million, it will be brought to the board meeting for further discussion.

(20 marks)

(c) The Board has decided not to raise the extra financing needed by using long-term debt or issuing common stock and they agreed to use notes payable instead to finance the extra fund. Mr Paa asked your opinion whether it is a good decision to make. Compute the new adjusted current ratio for Ajeez Dates and express your opinion on the changes in the company liquidity position.

(5 marks)

[TOTAL MARK: 30 MARKS]

Question 2

Deen Islamic Asset Management (DIAM) is an asset management company which offer innovative Shariah – compliance solutions to help diversify investment portfolio and achieve financial goals. You have just graduated and manage to get a position as a Junior Portfolio Executive, Equity. One of your tasks is to construct and manage investment portfolios consistent with the objectives of the clients.

Your first assignment is to handle a self-made entrepreneur Ms. Khatijah a 55-year-old woman and self – who running a security business, Pewaja Force. She wanted to invest RM 1 million with your bank and has instructed you to plan for a 1-year holding period. Further, your immediate supervisor has restricted you to the investment alternatives in the following table, shown with their probabilities and associated outcomes for three different financial stocks. SC, AM and MER. These three stocks are among the top gainers in the market. MDIB's forecasting staff has developed probability estimates for the state of economy; and its security analysis has developed a sophisticated computer program, which was used to estimate the rate of return on each alternative under each state of economy.

Table: Probability Distribution and Rate of Return.

State of	Probability		Rate of Return	
Economy	Trobability	SC	АМ	MER
Strong	0.3	0.8	0.2	- 0.2
Normal	0.4	0.14	0.15	0.16
Weak	0.3	- 0.60	- 0.05	0.4
Expected Return		11.60%	10.50%	12.40%
(ER)				
Standard		54.26%	10.36%	23.42%
Deviation (SD)				

Ms. Khatijah demands an investment that will reward her 10 percent return or more with a risk level below 10%. Based on the results above, all three showed a promising return but unfortunately, the risk level is quite high for Ms. Khatijah. Upon seeing the results, you plan to combine the stock to become a portfolio.

(a) Using all the information given, fulfill Ms. Khatijah demand by suggesting the appropriate combination of any **TWO** (2) stocks and defend your suggestion by preparing necessary calculation. Assuming Ms. Khatijah is willing to invest an equal percentage in both stocks.

(25 marks)

[TOTAL MARK: 25 MARKS]

Question 3

Since its establishment, Pewaja Securities (PS) has become one of the well – known companies in the security industry. Its biggest breakthrough was during the year 2020 when the company was chosen as the Most Trusted Security Company in its category. With the new era and new kind of threat in the securities industry, the demand for cybersecurity is increasing. Pewaja Securities Managing Director said in a statement during a press conference during RSA conferences, Pewaja Securities are looking forwards to getting involve in the industry and willing to spend its resources to give the best protection for its clients. The Research and Development (RnD) department estimated the initial investment for this new line of business is RM 1,000,000. Hearing this, you as the chief financial officer (CFO) intend to closely monitor the firm's cost of capital. There are main financing sources namely: long-term debt, preferred stock, and common stock. The target capital structure for PS is given by the weights in the following table.

Table: Source of Capital Weightage

Source of Capital	Weightage (%)
Long-Term Debt	30
Preferred Stock	20
Common Stock	50
TOTAL	100%

At the present time, PS can raise debt by selling 20 – year redeemable bonds with a RM 1,000 par value with a 4.5% annual coupon rate. Corporate tax rate is 40%, and the bond price is estimated to be sold at RM 850 with no flotation cost. Meanwhile PS's outstanding preferred stock pays a 9% annual dividend and has RM 100 per – share par value and is currently selling at RM 95. To track the cost of common stock, you use the capital asset pricing model (CAPM). The firm's investment advisors believe that the appropriate risk – free rate is 4% and the market expected return equals 13%. Using the data collected from the year 2021 through 2023, you estimate the firm's beta to be 1.3. You wish to get the current number of the weightage average cost of capital (WACC) of the firm.

(a) Compute PS's current weightage average cost of capital (WACC)

(8 marks)

(b) Based on your team analysis, they estimated the new project can generate at least RM 1,300,000 of net cash flow after a year. By using solely on the first-year analysis, the team try to investigate whether is it wise for them to proceed with the project on their own or hire a third-party vendor to develop the cybersecurity project.

(5 marks)

(c) During the board meeting, you propose the firm retire from using preferred stock as one source of finance and consider using debt financing where it will lead to a shift in the company capital structure long – term debt 50% and 50% common stock. If this happens, the beta is expected to increase by 0.2. Even though there are some increases in beta, you believe that it will lower the firm' WACC. Advise the board members by showing an appropriate calculation and advise the rest of the board members at least **TWO** (2) importance of WACC.

(12 marks)

[TOTAL MARK: 25 MARKS]

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Question 4

The idea behind capital budgeting is to choose the most suitable project that meets your objective. Mr. Adam plans to help the small medium industries' entrepreneurs by investing some of his fortune in their business. For those who are interested in applying, they must send their business plan and must state the amount capital needed and forecasted cash flow for 5 years.

Since there are a lot of applications coming in, Mr. Adam decided to screen them accordingly so the business can serve his best interest. There are two stages of the screening process. For the company to get into the next stage, the company must be able to repay the capital within 3 years. In the second stage of screening, the company must be able to generate a positive and the highest NPV. Only one company will be chosen this year.

Below is the applications information and forecasted net cash flow from the entrepreneur who is interested in applying the financing with Mr. Adam. They managed to prepare 5 years forecasted net cash flow to be presented to Mr. Adam to be evaluate.

,	Capital		Cash	Flow (RM),	Year	
Company	Required (RM)		2	3	4	5
Cookies	35,000	8,000	10,000	12,000	15,000	17,000
Instant Mee	50,000	10,000	15,000	20,000	25,000	30.,000
Hot Sauce	35,000	5,000	5,000	10,000	15,000	20,000
Pamelo	50,000	15,000	20,000	35,000	50,000	15,000
Chilli	55,000	10,000	10,000	10,000	10,000	10,000
Garlic Inc	40,000	5,000	15,000	25,000	5,000	15,000
Cheap Print	55,000	10,000	12,000	14,000	16,000	20,000

(a) Based on the information above, screen out the company that may proceed to the next stage.

(10 marks)

(b) In the final stages, Mr. Adam will choose a company that manages to meet his criteria. Mr. Adam states that he will choose a company that has a positive and a high Net Present Value (NPV). His required rate of return for any project that he wants to invest

in is 7%. Show a detailed calculation of which company manages to get capital from Mr. Adam and conclude your finding.

(10 marks)

[TOTAL MARK: 20 MARKS]

END OF QUESTION PAPER

FORMULA

- Depreciation = [Cost Salvage Value] / n
- DPR = (Dividend / Net Income) x 100
- $PV = PMT \times \frac{\left[1 \left(\frac{1}{(1+r)^n}\right)\right]}{r}$
- $FVA = PMT\left(\frac{(1+r)^n-1}{r}\right)$
- $E(R) = \sum (P \times R)$
- $\sigma = \sum P (R E(R))^2$
- $COV_{a,b} = \sum [r_a E(R)_a) (r_b E(R)_b] (P)$
- $Corr_{a,b} = COV_{a,b} / (\sigma_a)(\sigma_b)$
- $E(R) p = w_{XX}E(R)_{XX} + w_{YY}E(R)_{YY}$
- $Var(R_P) = (W_a x SD_a)^2 + (W_b x SD_b)^2 + 2(W_a W_b Corr_{a,b} SD_a SD_b)$
- $SD = \sqrt{VAR(Rp)}$
- WACC = Sum of ([w] x cost of capital)
- NPV = sum of PV CF0
- Ki = YTM
- K_d = ki(1-tax)
- K_{ps} = D / (MP FC)
- K_{Re} = [D₁ / (MP)] + g
- K_{ncs} = [D₁ / (MP FC)] + g
- Vc/s = Dividend / k
- $Vc/s = D_1/(k-g)$
- $Vc/s = [D_1/(1+K)^n] + + [D_n/{(k-g)(1+k)}]$

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

Period	1*	- **Z	3%	*7	3%6	9.4	7%	**	3,6	10%	*11	12%	43%	14%	15%		*02	24%	25%	30 %
** **	4,0100	1,0200	1.0300	1.0400	1.0500	1.0600	1.0700	1.0800	1.0900	1.1000	1.1100	1.1200	1.1300	1.1400	1.1500	1.1600	1.2000	1.2400	1,2500	1,3000
Z	1.0201	1.0404	1.0609	1.0816	1.1025	1.1236	1.1449	1.1664	1.1881	1.2100	1,2321	1.2544	1.2769	1.2996	1.3225	13456	1.4400	1.5376	1.5625	1.6900
*	1.0303	1.0612	1.0927	1.1249	1,1576	1.1910	1,2250	1.2597	1.2950	1,3310	1.3676	1,4049	1,4429	1,4815	1,5209	1.5609	1,7280	1.9066	1.9531	2.1970
	1.0406	1.0824	4.1255	1,1699	12155	1.2625	1,3108	1.3505	1,4116	1.4641	1,5181	1.5735	1,6305	1.6830	1.7490	1.8106	2.0736	2.3642	2.4414	2.8561
10	1.0510	1.1041	1.1593	1.2167	12763	1.3382	1.4026	1.4693	1.5386	1.6105	1.6851	1.7623	1.8424	1,9254	2,0114	2.1003	2.4883	29316	3.0518	3.7128
				·																
s	1.0615	1.1262	1.1941	1.2653	1,3401	1.4185	1.5007	1.5869	1,6774	1.7716	1.8704	1.9738	2.0820	2,1950	2.3131	2.4364	2.9860	3.6352	3.8147	4.8268
)),),	1.0721	1.1487	1,2299	1,3159	1.407.1	1.5036	1.6058	1.7138	1.8280	1.9487	2.0762	2.2107	2,3526	2.5023	2.5600	2.8262	3.5832	4.5077	4.7684	6.2749
20	7.0823	1.1717	1.2668	1.3686	1.4775	1.5938	1.7182	1.8509	1.9926	2.1436	23045	2.4760	2.6584	2.8526	3.0590	3.2784	4.2998	5.5895	5.9605	8.1573
97	1.0937	1.1951	1,3048	1.4233	1,5513	1.6895	1.8385	1.9990	2.1719	2.3579	2.5580	2.7731	3.0040	3.2519	3.5179	3.8030	5.1598	6.9310	7,4506	10.604
p	1,1046	1.2190	1,3439	1.4802	1.6283	1.7906	1.9672	2,1589	23674	2,5937	2,8394	3.1058	3.3946	3,7072	4,0456	4.4114	6.1917	8.5944	9.3132	13.786
		-																		
	1.1157	1.2434	1.3842	1.5395	1,7103	1.8983	2.1049	23316	2.5804	2.8531	3.1518	3,4785	3,8359	4.2262	4.6524	5.1173	7.4301	10.657	11.642	17.922
42	1.1268	1.2582	1.4258	1.6010	1.7959	2,0122	22522	2.5182	2.8127	3.1384	3,4985	3.8960	4,3345	4.8179	5,3503	5.9360	8.9161	13.215	14.552	23.298
2	1.1381	1.2936	1.4685	1.6651	1.8856	2.1329	2.4038	27196	3.0658	3,4523	3.8833	4.3635	4.8980	5.4524	6.1528	6.8858	10.699	16.386	18.190	30,288
, 1	1.1495	1,3195	1.5126	1.7317	1.9799	2,2609	2,5785	2.9372	3.3417	3.7975	4.3104	4.8871	5.5348	6.2613	7.0757	7.5875	12.839	20,319	22.737	39,374
33	1.1610	1,3459	1.5580	1.8009	20789	2,3966	2,7590	3.1722	3.6425	4.1772	4.7846	3675.8	6,2543	7.1379	8.1371	9.2655	15.407	25.196	28.422	51.186
Ç) 												-								
9	1.1726	1.3728	1.6047	1.8730	2.1829	2.5404	23522	3,4259	3.9703	4.5350	5,3109	6.1304	7.0673	8.1372	9.3576	10.748	18.488	31.243	35.527	66.542
14	1.1843	1.4002	1.6528	1.9479	2.2920	2.6928	3.1588	3.7000	4.3276	5,0545	5.8951	6.8660	7.9861	9.2765	10.761	12.468	22.186	38.741	44.409	86.504
•0	1,1961	1.4282	1.7024	2.0258	24066	2.8543	3.3799	3,9960	4.7171	5.5539	6.5436	7.6900	9.0243	10.575	12.375	14.463	26.623	48.039	55.511	112.455
18	1.2081	1.4568	1.7535	2,1068	2.5270	3.0256	3,6165	4,3157	5,1417	6.1159	7.2633	8.6128	10.197	12.056	14.232	16.777	31.948	59,568	63,389	146,192
8	1,2202	1,4859	1.8061	2.1911	2.6633	3.2071	3.8697	4.6610	5.6044	6.7275	8.0623	9.6463	11.523	13.743	16.367	19,461	38.338	73.864	86,736	190.050
*	1.2324	1.5157	1.8603	2.2788	2,7860	3,3996	4,1406	5.0338	6.1088	7.4002	8.9492	10.804	13.021	15.668	18.822	22.574	46.005	91.592	108.420	247.065
22	1.2447	1.5460	1.9161	2,3699	2,9253	3.6035	4.4304	5,4365	6.6586	8.1403	9.9336	12.100	14.714	17.861	21.645	26.186	55.206	113.574	135.525	321.184
83	1.2572	1,5769	1.9736	2.4647	3.0715	3,8197	4.7405	5.8715	7.2579	8.9543	11.026	13.552	16.627	20.362	24.891	30.376	66.247	140.831	169,407	417.539
7	1.2697	1.6084	2.0328	2.5633	3,2251	4.0489	5.0724	6.3412	7.9111	9.8497	12,239	15.179	18.788	23.212	28.625	35.236	79.497	174.631	211.758	542.801
25	1,2824	1.6406	2.0938	2.6658	3,3864	4.2919	5,4274	6.8485	8.6231	10.835	13,585	17.000	21.231	26.462	32,919	40.874	95,396	216.542	264.698	705.641
8	1,3478	1.8114	2,4273	3.2434	4.3219	5.7435	7.6123	10.063	13.268	17.449	22.892	29.960	39.116	50.950	66.212	85.850	237.376	634.820	807.794	*
38	1.4166	1.9999	2.8139	3.9461	5,5160	1.6861	10.677	14,785	20.414	28.102	38.575	52.800	72.069	98.100	133,176	180.314	590,668	*	*	*
*	-	2.0399	2.8983	4.1039	5.7918	8.1473	11.424	15.968	22.251	30,913	42.818	59.136	81.437	111.834	153.152	209.164	708.802	÷	*	*
4	-	22080	3.2620	4.8010	7.0400	10.286	14.974	21,725	31.409	45.259	65.001	93.051	132.782	188.884	267.864	378,721	*	*	*	*
8	1.6446	2.6916	4.3839	7.1067	11.467	18.420	28.457	46,902	74.358	117.394	-	289.002	450.736	700.233	*	*		*	*	#
																X	,			

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CONFIDENTIAL Table A-2 Future Value Interest Factors for a One-Dollar Annuity Compouned at k Percent for n Periods: $FV/FA_{kn} = \{(1+k)^n - 1\}/k$

		,	,			 						,							,				,		,										
*.0 0	1.3000	2.3000	3,9900	6.1870	9.0431	12.756	17.583	858.65	32.015	42.619		56.405	74.327	97.625	127.913	167.286		218.472	285.014	371.518	483.973	630.165		820.215	#	*	#	*		*	*	*	*	*	
25%	12500	2.2500	3.8125	5.7656	8.2070	11.258	15.073	19.842	25.862	33.253		42.566	54.208	68.760	86.949	109.687		138.109	173.636	218.045	273.556	342.945		429.581	538,101	673.626	843,033	*		*	*	*	*	*	
26%	1.2400	2,2400	3.7776	5.6842	8.0484	10,960	14,615	19.123	24.712	31,643		40.238	50.895	64.110	80.496	100.815		126.011	157.253	195.994	244.033	303.601		377.465	469.056	582,630	723.461	838,092		*	*	*	*	*	
20%	1.2000	22000	3.6400	5.3680	7.4416	9.9299	12.916	16,499	20.739	25,959		32.150	39.581	48.497	59.196	72.035		87.442	105.931	128.117	154.740	186.688		225.026	271.031	326.237	392.484	471.381		*	*		*	*	
16%	1.1600	2.1500	3,5056	5.0665	6.8771	8,9776	11.414	14,240	17.519	21.321		25.733	30.850	36.786	43.672	51.660		60.925	71.673	84.141	509.86	115,380		134.841	157,415	183.601	213.978	249.214		530,312	*	¥	4		
10%	1.1500	2.1500	3.4725	4.9934	6.7424	8.7537	11.067	13.727	16.786	20,304		24.349	29.002	34.352	40.505	47.580		55.717	65.075	75.836	88.212	102.444		118.810	137.632	159.276	184.168	212.793	1	434,745	881.170	٠	*	*	
% P}	1.1400	2.1400	3,4396	4.9211	10193	8,5355	10,730	13,233	16.085	19,337		23.045	27.271	32,089	37.581	278'67		50.980	59.118	68,394	78.969	91.025		104.768	120,436	138.297	158 659	181.871		356,787	693.573	791,673	*	*	
43%	1.1300	2.1300	3.4069	4.8496	6.4803	8.3227	10.405	12.757	15.416	18.420		21.814	25.650	29.985	34.883	40,417		46.672	53.739	61,725	70.749	80.947	À	32.470	105.491	120.205	136.831	155.620		293.199	546.581	618.749	*	*	
12%	1,1200	2.1200	3.3744	4.7793	6.3528	8.1152	10.089	12,300	14,776	17.549		20.655	24.133	28.029	32,393	37.280		42.753	48.884	55.750	63.440	72.052		81.633	92.503	104.603	118.155	133.334	ì	241.333	431.663	484.463	767.091	*	
8 <i>1</i>	1.1100	2.1100	3,3421	4.7097	6.2278	7.9129	9.7833	11.859	14.164	16,722		19,561	22.713	26.212	360'0E	34.405	T. Name	39,190	44.501	962'09	56.939	64.203		72.265	81.214	91.148	102.174	114.413		199.021	341.590	380,164	581.826	*	
*0	1,1000	2.1000	3.3100	4.6410	6.1051	7.7156	9.4872	11,436	13.579	15,937		18.531	21.384	24.523	27.976	31.772		35.350	40.545	45.599	51.158	57.275		54.002	71.403	79.543	88.497	98.347		164.494	271.024	299,127	442.593	*	
*6	1,0900	2.0900	3.2781	4.5731	5.9847	7.5233	9.2004	11.028	13.021	15,193		17.560	20.141	22.953	26.019	29.361		33.003	36.974	41.301	48.018	51.160		58.765	62.873	69.532	76.790	84.701		136.308	215.711	236.125	337.882	815.084	
*	1.0800	2,0800	3.2464	4.5061	5.8666	7.3359	8.9228	10.637	12.488	14.487		16,645	18.977	21.495	24.215	27 152		30,324	33,750	37.450	41.446	45.762		50.423	55.457	60.893	66.765	73,106		113.283	172317	187.102	259.057	573.770	
**	1.0700	2.0700	3.2149	4.4399	5 7507	7.1533	8,6540	10,260	11.978	13.816		15.784	17.888	20.141	22.550	25.129		27.888	30.840	33,999	37.379	40.995		44.865	49.006	53.436	58.177	63.249		34.461	138.237	148.913	199,635	406.529	
%	1.0600	2.0600	3.1836	4.3746	5.6374	6.9753	8.3338	9,8975	11.491	13.181		14.972	16.870	18.882	21.015	23.276		25.673	28.213	30,906	33.760	38.786		39,993	43.392	966.31	50.816	54.865		79.058	111.435	119,121	154,762	290,336	
946	1,0500	2.0500	3.1525	4.3101	5.5256	6.8019	8.1420	3,5491	11.027	12.578		14.207	15,917	17.713	19.599	21.579		23,657	25.840	28.132	30.539	33.066		35,719	38.505	41.430	44.502	47.727		6EF'99	90,320	92836	120.800	209.348	
*1	1,0400	2.0400	3,1216	4.2465	5.4163	6.6330	7.8983	9.2142	10.583	12.006		13.486	15.026	16.627	18.292	20.02		21.825	23.698	25.645	27.671	877.62		31.969	34.248	36.618	39.083	41.646		56.085	73,652	965°22	95.026		
38	1.0300	2,0300	3.0909	4.1836	5,3091	6.4684	7.6625	8.8923	10,159	11.464		12.806	14.192	15.618	17.086	18.599		20.157	21.762	23.414	25.117	26.870		28.676	30.537	32.453	34.426	36.439		47.575	60.462	63.276	75.401	112.797	
- 5 2	1.0200	2,0200	3.0604	4.1216	5.2040	6.3081	7.4343	8.5830	9.7546	10.950		12.169	13.412	14.680	15.974	17.283		18,639	20.012	21.412	22 841	24.297		25.783	27.289	28.845	30.422	32,030		40.568	49.994	51.994	60.402	84.579	
. *•	1.0000	2.0100	3.0301	4.0604	5,1010	6.1520	7.2135	8.2857	9.3685	10.462		11.567	12.683	13.809	14.947	16,097		17.258	18.430	19,615	20.811	22.019		23,239	24.472	25.716	26.973	28.243		34,785	41.660	43.077	48.886	54.463	
Period		. 2	3	 .	. 5			1. S. C.	. 9	*0	100.65 (50	11	12	53	·	46	30 July 13 July 1	- 16	17	18	19	_ 20		. 21	. 22	.23	્ગ	25	020000	30	35	36	07	88	

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

4 0.3709 0.9615 0 2 0.9426 0.9546 0 8 0.8885 0.8638 0 8 0.8885 0.8638 0 7 0.8626 0.8219 0 7 0.8626 0.8219 0 9 0.6226 0.7307 0 9 0.77834 0.7307 0 9 0.7784 0.6756 0 9 0.6716 0.6756 0 0 0.7744 0.6756 0 0 0.7744 0.6756 0 0 0.6717 0.6553 0 0 0.6611 0.5775 0 0 0.6611 0.5775 0 0 0.6611 0.5736 0 0 0.6611 0.6533 0 0 0.6537 0.4564 0 0 0.5067 0.4056 0 0 0.5067 </th <th></th> <th>£</th> <th>X0</th> <th>*</th> <th>ŧ</th> <th>889</th> <th>*</th> <th>ž</th> <th>¥8</th> <th>10%</th> <th>*</th> <th>×</th> <th>13%</th> <th>14%</th> <th>15%</th> <th>16%</th> <th>*2</th> <th>24%</th> <th>25%</th> <th>30%</th>		£	X 0	*	ŧ	889	*	ž	¥8	10%	*	×	13%	14%	15%	16%	*2	24%	25%	30%
Q.25.73 Q.25.73 Q.25.73 Q.25.73 Q.75.73 Q.75.73 <t< td=""><td>1</td><td>0.9804</td><td>6,9709</td><td>0.9615</td><td>0.9524</td><td>0.9434</td><td>0.9346</td><td>0.9259</td><td>0.9174</td><td>0.9091</td><td>0.9009</td><td>0.8929</td><td>0.8850</td><td>0,8772</td><td>9898.0</td><td>0.9621</td><td>0.8333</td><td>0.8065</td><td>0.8000</td><td>0.7692</td></t<>	1	0.9804	6,9709	0.9615	0.9524	0.9434	0.9346	0.9259	0.9174	0.9091	0.9009	0.8929	0.8850	0,8772	9898.0	0.9621	0.8333	0.8065	0.8000	0.7692
0.8878 0.8888 0.8888 0.8889 0.8889 0.8889 0.8879 0.8770 0.4781 0.7181 0.7831 0.8770 0.4781 0.7870 0.7871 0.7870 0.4879 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870 0.6870<	ł	0.9612	0.9426	0.9246	0.9070	0.8900	0.8734	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
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0.6678 0.7719 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729 0.7729<		0.9238	0.8885	0.8548	0.8227	0.7324	0.7629	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
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0.6611 0.6606 0.6703 0.4623 0.4620 0.2203 0.2204 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827 0.1827<	+	0.7885	0.7014	0.6246	89990	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
0.6611 0.5775 0.4801 0.4802 0.2200 0.2200 0.2100 0.11807 0.14897 0.1487 0.14897 0.1487 0.1487 0.14897 0.1487 0.1489 0.04819 0.0583 0.0584 0.0287 0.0289 0.14807 0.14897 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489 0.1489	+	0.7730	0.6810	9009	0.5303	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
0.6532 0.6533 0.4610 0.4173 0.34524 0.2346 0.2346 0.1289 0.1401 0.1229 0.1079 0.0649 0.1039 0.10401 0.1229 0.10450 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0520 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0531 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.0530 0.05	1	0.7579	11:88:0	0.5775	0.5051	0.4423	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
0.6232 0.6339 0.4581 0.2516 0.1883 0.1681 0.1616 0.1229 0.1063 0.0541 0.0541 0.0320 0.0581 0.5030 0.5134 0.4363 0.4383 0.4581 0.5186 0.1789 0.1683 0.1616 0.1229 0.1063 0.0591 0.0541 0.0581 0.0581 0.0581 0.0581 0.0581 0.0581 0.0581 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182 0.0182	-	0.7430	0.6419	0.5553	0.4810	0.4173	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
0.7784 0.6232 0.6336 0.4581 0.2316 0.1881 0.1881 0.1881 0.1882 0.1882 0.1089 0.0830 0.0830 0.0561 0.0562 0.0830 0.0561 0.0263 0.0261 0.0262 0.0270 0.0211 0.1898 0.1456 0.1222 0.1078 0.0282 0.0261 0.0212 0.0212 0.1456 0.1262 0.1078 0.0282 0.0261 0.0289 0.0261 0.1386 0.1456 0.1262 0.1078 0.0282 0.0261 0.0261 0.0262 0.0270 0.0261 0.0262 0.0270 0.0262 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270 0.0270<											b								-	
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0.5570 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4156 0.4157 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167 0.4167<	t	0.7142	0.6050	0.5134	0.4363	0.3714	0.3166	0.2703	0.2311	0.1978	0.1596	0.1456	0.1252	0.1078	0.0929	0.0802	0.0451	0.0258	0.0225	0.0116
0.6854 0.5736 0.3746 0.3757 0.3246 0.3277 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.1436 0.0436 0.0531 0.0541 0.0541 0.0541 0.0541 0.0541 0.0541 0.0541 0.0541 0.0542 0.0542 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442<	0.8360	0.7002	0.5874	0.4936	0.4155	0,3503	0.2959	0.2502	0.2120	0.1739	0.1528	6,1300	0.1108	0.0946	0.0808	0.0691	0.0376	0.0208	0.0150	0.0089
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0.65368 0.5276 0.2465 0.2465 0.2465 0.2465 0.2465 0.2637 0.1551 0.1117 0.0926 0.0768 0.0531 0.0443 0.0217 0.0092 0.0050 0.0560 0.05462 0.0547 0.0092 0.0092 0.0050 0.0560 0.0462 0.0581 0.0071 0.0093 0.0071 0.0093 0.0050 0.0560 0.0462 0.0582 0.0071 0.0071 0.0071 0.0071 0.0071 0.0071 0.0071 0.0071 0.0071 0.0071 0.0071 0.0071 0.0071 0.0072 0.0072 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.0172 0.017	1	0.6730	0.5537	0.4564	0.3769	0.3118	0.2584	0.2145	0.1784	0.1486	0.1240	0.1037	0.0868	0.0728	0.0611	0.0514	0.0261	0.0135	0.0115	0.0053
0.6536 0.5216 0.4386 0.2346 0.2415 0.1357 0.1357 0.1357 0.1357 0.1357 0.1357 0.1357 0.1357 0.1357 0.1357 0.1357 0.1358 0.1358 0.0056 0.0650 0.0462 0.0382 0.0181 0.0074 0.0059 0.0046 0.0462 0.0382 0.0181 0.0074 0.0059 0.0046 0.0462 0.0382 0.0182 0.0462 0.0462 0.0382 0.0182 0.0059 0.0462 0.0382 0.0182 0.0046 0.0462 0.0382 0.0462 0.0462 0.0382 0.0462 0.0462 0.0382 0.0461 0.0462 0.0382 0.0162 0.0462 0.0462 0.0382 0.0171 0.0372 0.0471 0.0432 0.0471 0.0432 0.0471 0.0432 0.0471 0.0432 0.0432 0.0431 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432<	 																			
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0.62317 0.4919 0.3301 0.2370 0.1842 0.1264 0.1016 0.0817 0.0817 0.0817 0.0817 0.0817 0.0817 0.0817 0.0817 0.0823 0.0471 0.0318 0.0245 0.0246 0.0046 0.0040 0.0040 0.0040 0.0040 0.0040 0.0040 0.0040 0.0040 0.0041 0.0041 0.0318 0.0318 0.0040 0.0040 0.0041 0.0041 0.0318 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0041 0.0042 0.0042 0.0042 0.0042	1	0.6342	0.5067	0,4057	93256	0.2618	0.2109	0.1703	0.1378	0.1117	0.0907	0.0738	0.0601	0.0431	0.0402	0.0329	0,0151	0.0071	0.0059	0.0024
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0.5000 0.3554 0.2534 0.1813 0.1301 0.0676 0.0480 0.0258 0.0188 0.0188 0.0102 0.0075 0.0056 0.0017 0.0005 0.0017 0.0005 0.0014 * 0.4870 0.2450 0.2450 0.2451 0.1727 0.0450 0.0450 0.0123 0.0123 0.0123 0.0123 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0124 0.0024 0.0025 0.0027 0.0026 0.0007 * * * * * * * * * * * * * * * * * * * * * * * * * * * *	一	0.5521	0.4120	0.3083	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	#
0.4502 0.2450 0.2450 0.2450 0.2450 0.2450 0.2450 0.0252 0.0245 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0154 0.0025 0.0054 0.0025 0.0054 0.0025 0.0054 0.0025 0.0054 0.0025 0.0054 0.0025 0.0054 0.0025 0.0054 0.0025 0.0054 0.0025 0.0054 0.0025 0.0054 0.0025 0.0054 0.0025 0.0054 0.0025 0.0054 0.0025 0.0054 0.0025 0.0054 0.0025 0.0054 0.0025 0.0054 0.0025 0.0054 0.0025 0.0054 0.0025 0.0054 0.0025 0.0054 0.0025 0.0054<	Ι	0.5000	0.3554	0.2534	0.1813	0.1301	0.0937	9290'0	0.0490	0.0356	0.0259	0.0189	0.0139	0.0102	0.0075	0.0055	0.0017	0.0005	*	*
0.4529 0.3066 0.2083 0.1420 0.0972 0.0688 0.0460 0.0318 0.0221 0.0154 0.0107 0.0073 0.0037 0.0026 0.0007 *	6969'0	0.4902	0.3450	0.2437	0.1727	0.1227	0.0875	0.0626	0.0443	0.0323	0.0234	0.0169	0.0123	0.0089	0.0065	0.0048	0.0014	*	*	*
0.3715 0.2281 0.1407 0.0872 0.0543 0.0339 0.0213 0.0134 0.0085 0.0054 0.0035 0.0024 0.0098 0.0006 *	0.6717	0.4529	9906.0	0.2083	0.1420	0.0972	0.0668	0.0460	0.0318	0.0221	0.0154	0.0107	0.0075	0.0053	0.0037	0.0026	0.0007	*	*	٠
	1	0.3715	0.2281	0,1407	0.0872	0.0543	0.0339	0.0213	0.0134	0.0085	0.0054	0,0035	0.0022	0.0014	0.0009	900000		*	*	*

MARCH 2024

CONFIDENTIAL

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

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1870a 1846 1870a 1870a 1870a 1870a 1870a 1870a 1870a 1870a 1840a 1870a 1870a 1870a 1840a 1870a 1870a 1870a 1840a 1870a 1870a 1870a 1840a 1870a	30%	0.8333	1.5278	2.1065	2.5887	23906		3,3255	3.6046	3.8372	4.0310	4.1925		4.3271	4.4392	4.5327	4.6106	4.6755		4.7296	4.7746	4.8122	4.8435	4.8696		4.8913	4.9034	4.9245	4.9371	4.9476		4.9789	4.9915	4.8929	4.9966	4.9995
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