

FACULTY OF BUSINESS

FINAL EXAMINATION

FIN1314 FUND	AMENTALS	OF FI	NANC	CE						
SEPTEMBER - D	DECEMBER 2	2023								
DR. ABD HADI	MUSTAFFA									
2 Hours										
	SEPTEMBER - I DR. ABD HADI	SEPTEMBER - DECEMBER : DR. ABD HADI MUSTAFFA	SEPTEMBER - DECEMBER 2023 DR. ABD HADI MUSTAFFA	SEPTEMBER - DECEMBER 2023 DR. ABD HADI MUSTAFFA	DR. ABD HADI MUSTAFFA	SEPTEMBER - DECEMBER 2023 DR. ABD HADI MUSTAFFA				

INSTRUCTIONS TO CANDIDATES

1. This question paper consists of the following:

PART A (25 Marks) : Answer ALL Short Essay Questions in the Answer Booklet PART B (75 Marks) : Answer ALL Problem-Solving Questions in the Answer Booklet

- 2. Candidates are not allowed to bring any unauthorized materials except writing equipment into the Exam Hall. Electronic dictionaries are strictly prohibited.
- 3. This question paper must be submitted with all used and/or unused rough papers and/or graph paper (if any). Candidates are NOT allowed to take any examination materials from the examination hall.
- 4. Only ballpoint pens are allowed to answer the questions, except for multiple choice questions, where 2B pencils are to be used.

WARNING: The University Examination Board (UEB) of BERJAYA University College regards cheating as a most serious offence and will not hesitate to mete out the appropriate punitive actions according to the severity of the offence committed and in accordance with the clauses stipulated in the Students' Handbook, up to and including expulsion from BERJAYA University College.

Total Number of pages = 11 (Including the cover page)

PART A : SHORT ESSAY QUESTIONS (25 Marks)

INSTRUCTION (S) : Answer ALL Short Essay Questions in the Answer Booklet.

QUESTION 1

List **FIVE (5)** main roles of Financial Managers

(5 Marks)

QUESTION 2

Explain TWO (2) types of Financial Markets

(4 Marks)

QUESTION 3

Differentiate between Present Value Interest Factor Annuity (PVIFA) and Future Value Interest Factor Annuity (FVIFA).

(4 Marks)

QUESTION 4

Describe **THREE (3)** reasons why ethical financial behaviour needs to be implemented in a company.

(6 Marks)

QUESTION 5

Explain THREE (3) types of Efficient Market Hypothesis (EMH).

(6 Marks)

END OF PART A

PART B : PROBLEM-SOLVING QUESTIONS (75 Marks)

INSTRUCTION (S) : Answer ALL Problem-Solving Questions in the Answer Booklet.

QUESTION 1

Below are the financial statements of Duro Bakery for the financial year ending 31st December 2022.

DURO BAKERY
Statement of Financial Position as at 31st December 2022

	RM		RM
Cash	37,500	Accounts Payable	99,000
Prepayments	22,500	Notes payable	24,000
Accounts Receivables	90,800	Accruals	16,500
Inventories	110,200		
		Long Term Debt	99,000
Net Fixed Asset	414,000		
		Common shares	249,000
		Paid-in capital	58,500
		Retained Earnings	129,000
TOTAL ASSET	675,000	TOTAL LIABILITIES & EQUITIES	675,000

DURO BAKERY
Statement of Profit and Loss for the Year Ended 31st December 2022

	RM
Sales	1,400,000
Less: Cost of Goods Sold	(826,000)
Gross Profit	574,000
Less: Expenses	(267,190)
Less: Depreciation	(30,000)
Earnings before interest and tax	276,810
Less: Interest	(25,000)
Earnings before tax	251,810
Less: Tax	(100,724)
Net Profit after tax	151,086

INDUSTRY AVERAGE RATIOS

Current Ratio	2.5 times	Average Collection Period	30 days
Debt Ratio	40%	Net Profit Margin	10%
Quick Ratio	1.35 times	Inventory Turnover	4.6 times
Times Interest Earned	9 times	Return on Equity	25%

a) Calculate the relevant financial ratios.

(16 Marks)

b) Based on your answer in (a), assess the performance of the company.

(9 Marks)

[Total: 25 Marks]

QUESTION 2

a) Lola is helping her father, Mr Lulu to decide on which bond to invest. Below is the following information about two (2) bonds:

	Calum Bond	Scott Bond
Year of Issuance	2017	2017
Year of maturity	2027	2037
Coupon rate	5%	10%
Market price of the bond	RM 900	RM 1,100

i. If the required rate of return is 8%, calculate the value of each bond.

(8 Marks)

ii. Which bond should Mr Lulu invest in? Justify your answer.

(5 Marks)

- b) Pudding Corporation paid a dividend of RM 1.50 last year. The dividend is expected to grow at an annual rate of 4% for year 1, 5% for year 2, 6% for year 3, 9% for year 4, and the growth rate is expected to be constant at 10% thereafter. The required rate of return is 12%.
 - i. Calculate today's value of stock for Pudding Corporation using the Variable Growth Model.
 (10 Marks)
 - ii. Justify if it is worth purchasing Pudding Corporation stock, given that the stock's market price is RM 65.

(2 Marks)

[Total: 25 Marks]

QUESTION 3

Arab Holdings Berhad is considering two (2) mutually exclusive projects - Project A and Project B. Those two projects involve an investment cost of RM 500,000. The cost of capital is 9 percent, and the expected cash flow for each project is given below:

Year	Project A (RM)	Project B (RM)
1	200,000	180,000
2	200,000	200,000
3	200,000	220,000
4	200,000	240,000
5	200,000	260,000

- a) Calculate for Project A and Project B on the following:
 - i. Payback Period

(8 Marks)

ii. Net Present Value

(10 Marks)

iii. Accounting Rate of Return

(4 Marks)

b) Based on the answer (a), which Project should Arab Holdings Berhad choose? Justify your answer.

(3 Marks)

[Total: 25 Marks]

END OF PART B

END OF QUESTION PAPER

Table 1: Future Value Interest Factor for RM 1.00 Compounded: FVIF r,n = (1 + r)^t

_	_	_	_	_		_			_	_	_		_			_		_					_			222		_	_	
30%	1,3000	1.6900	2.1970	2.8561	3,7129	4.8268	6.2749	8.1573	10.604	13.786	17.922	23,298	30.288	39.374	51.186	66.542	86,504	112.46	146.19	190.06	247.06	321.18	417.54	542.80	705.64	2620.0	9727.9	36119	497929	6864377
28%	1.2800	1.6384	2.0972	2.6844	3,4360	4.3980	5.6295	7,2058	9.2234	11,806	15.112	19.343	24.759	31,691	40.565	51.923	66.461	85.071	108.89	139.38	178.41	228.36	292.30	374.14	478.90	1645.5	5653.9	19427	229350	2707885
26%	1.2600	1,5876	2.0004	2.5205	3,1758	4.0015	5.0419	6,3528	8.0045	10,086	12.708	16.012	20.175	25.421	32.030	40,358	50.851	64.072	80,731	101.72	128.17	161.49	203.48	256.39	323,05	1025.9	3258.1	10347	104358	1052528
24%	1,2400	1.5376	1,9066	23642	2,9316	3.6352	4.5077	5.5895	6.9310	8.5944	10,657	13,215	16.386	20,319	25.196	31,243	38.741	48.039	59,568	73.864	91,592	113.57	140.83	174.63	216.54	634.82	1861.1	5455.9	46890	402996
22%	1,2200	1.4884	1,8158	22153	2.7027	3.2973	4.0227	4.9077	5.9874	7,3046	8,9117	10.872	13.264	16.182	19.742	24,086	29.384	35.849	43.736	53.358	65,096	79.418	96,889	118.21	144.21	389.76	1053.4	2847.0	20797	151911
20%	1,2000	1,4400	1,7280	2.0736	2,4883	2.9860	3.5832	4.2998	5.1598	6.1917	7,4301	8.9161	10.699	12,839	15.407	18,488	22.186	26.623	31,948	38.338	46.005	55.206	66,247	79.497	962396	237.38	590.67	1469.8	9100.4	56348
18%	1.1800	1.3924	1.6430	1.9388	2.2878	2.6996	3,1855	3,7589	4.4355	5.2338	6.1759	7.2876	8.5994	10,147	11.974	14.129	16.672	19.673	23.214	27.393	32.324	38,142	45.008	53.109	65,669	143.37	328.00	750.38	3927.4	20555
16%	1,1600	1.3456	1.5609	1,8106	2.1003	2.4364	2.8262	3.2784	3.8030	4.4114	5.1173	5.9360	6.8858	7.9875	9.2655	10.748	12.468	14.463	16.777	19.461	22,574	26.186	30,376	35.236	40.874	85.850	180.31	378.72	1670,7	7370.2
14%	1,1400	1,2996	1,4815	1,6890	1.9254	2.1950	2.5023	2.8526	3.2519	3,7072	4.2262	4.8179	5.4924	6.2613	7.1379	8.1372	9.2765	10.5752	12.0557	13.7435	15,6676	17.8610	20.362	23.212	26.462	50.950	98.100	188.88	700.23	2595.9
12%	1.1200	1,2544	1,4049	1,5735	1.7623	1.9738	2.2107	2.4760	2.7731	3.1058	3.4785	3.8960	4,3635	4,8871	5,4736	6.1304	6.8660	7.6900	8.6128	9.6463	10.804	12.100	13.552	15.179	17,000	29.960	52,800	93,051	289.00	897.60
10%	1,1000	1,2100	1.3310	1.4641	1.6105	1.7716	1.9487	2.1436	2.3579	2,5937	2.8531	3.1384	3,4523	3,7975	4.1772	4.5950	5.0545	5,5599	6.1159	6.7275	7.4002	8.1403	8.9543	9.8497	10.835	17.449	28.102	45.259	117,39	304.48
%6	1.0900	1.1881	1.2950	1,4116	1.5386	1.6771	1.8280	1.9926	2.1719	2.3674	2.5804	2.8127	3.0658	3.3417	3.6425	3.9703	4.3276	4,7171	5.1417	5.6044	6,1088	6.6586	7.2579	7.9111	8.6231	13.268	20.414	31,409	74,358	176.03
87%	1.0800	1.1664	1.2597	1,3605	1.4693	1,5869	1,7138	1.8509	1.9990	2.1589	2.3316	2.5182	2.7196	2.8372	3.1722	3,4259	3.7000	3,9980	4.3157	4.6610	5,0338	5.4365	5.8715	6.3412	6.8485	10.063	14,785	21,725	46.902	101.26
7%	1.0700	1.1449	1.2250	1,3108	1.4026	1,5007	1.6058	1.7182	1.8385	1.9672	2.1049	2.2522	2.4098	2.5785	2.7590	2.9522	3.1588	3,3799	3,6165	3.8697	4,1406	4.4304	4.7405	5.0724	5,4274	7.6123	10.677	14.974	29.457	57.946
6%	1.0600	1.1236	1,1910	1.2625	1.3382	1,4185	1,5038	1.5938	1.6895	1.7908	1.8983	2.0122	2.1329	2,2609	2.3966	2.5404	2.6928	2.8543	3.0256	3.2071	3.3996	3.6035	3.8197	4.0489	4,2919	5.7435	7,6861	10.286	18,420	32.988
5%	1.0500	1.1025	1,1576	1,2155	1.2763	1.3401	1.4071	1.4775	1,5513	1.6289	1.7103	1.7959	1.8856	1,9799	2.0789	2.1829	2.2920	2.4086	2.5270	2.6533	2.7860	2.9253	3,0715	3.2251	3,3864	4.3219	5,5160	7.0400	11,467	18.679
4%	1.0400	1.0816	1.1249	1.1699	1.2167	1,2653	1.3159	1.3686	1.4233	1.4802	1.5395	1.6010	1.6651	1.7317	1.8009	1.8730	1.9479	2.0258	2.1068	2.1911	2.2788	2.3699	2.4647	2.5633	2,6658	3.2434	3.9461	4.8010	7.1067	10.520
3%	1.0300	1.0609	1,0927	1.1255	1.1593	1,1941	1,2299	1.2668	1.3048	1,3439	1.3842	1,4258	1.4685	1.5126	1.5580	1.6047	1.6528	1,7024	1.7535	1.8061	1,8603	1.9161	1.9736	2.0328	2.0938	2.4273	2.8139	3.2620	4.3839	5.8916
2%	1.0200	1.0404	1.0612	1.0824	1.1041	1,1262	1.1487	1,1717	1,1951	12190	1.2434	1.2682	1.2936	1,3195	1,3459	1.3728	1.4002	1.4282	1.4568	1,4859	1,5157	1.5460	1.5769	1.6084	1,6406	1.8114	1.9999	2,2080	2,6916	3.2810
1%	1,0100	1,0201	1,0303	1.0406	1.0510	1.0615	1.0721	1.0829	1.0937	1,1046	1,1157	1,1268	1.1381	1.1495	1,1610	1.1726	1,1843	1,1961	1,2081	1,2202	1.2324	1.2447	1.2572	1,2697	1.2824	1.3478	1,4166	1,4889	1.6446	1.8167
Period	1	2	60	4	2	9	7	80	60	10	#	12	13	14	15	16	17	18	19	20	21	22	23	24	25	30	88	40	99	9

Table 2: Present Value Interest Factor for RM 1.00 Discounted: PVIF r,n = 1/(1 + r)^t

30%	0.7692	0.5917	0.4552	0.3501	0.2693	0.2072	0.1594	0.1228	0.0943	0.0725	0.0558	0.0429	0.0330	0.0254	0.0195	0.0150	0.0116	0.0089	0.0068	0.0053	0.0040	0.0031	0.0024	0.0018	0.0014	0.0004	0.0001	0.0000	0.0000	0.0000
28%	0.7813	0.6104	0.4768	0.3725	0.2910	0.2274	0.1776	0.1388	0.1084	0.0847	0.0662	0.0517	0.0404	0.0316	0.0247	0.0193	0.0150	0.0118	0.0092	0.0072	0.0056	0.0044	0.0034	0.0027	0.0021	900000	0.0002	0.0001	0.0000	0.0000
26%	0.7937	0.6299	0.4999	0.3968	0.3149	0.2499	0.1983	0.1574	0.1249	0.0992	0.0787	0.0625	0.0496	0.0393	0.0312	0.0248	0.0197	0.0156	0.0124	0.0098	8,000.0	0.0062	0.0049	0.0039	0.0031	0.0010	0.0003	0.0001	0.0000	0.0000
24%	0.8065	0.6504	0.5245	0.4230	0.3411	0.2751	0.2218	0.1789	0.1443	0.1164	0.0938	0.0757	0.0610	0.0492	0.0397	0.0320	0.0258	0.0208	0.0168	0.0135	0.0109	0.0088	0.0071	0.0057	0.0046	0.0016	0.0005	0.0002	0.000.0	0.0000
22%	0.8197	0.6719	0.5507	0.4514	0.3700	0.3033	0.2486	0.2038	0.1670	0.1369	0.1122	0.0920	0.0754	0.0618	0.0507	0.0415	0.0340	0.0279	0.0229	0.0187	0.0154	0.0128	0.0103	0.0085	0.0069	0.0026	0.0009	0.0004	0.0000	00000
20%	0.8333	0.6944	0.5787	0.4823	0.4019	0.3349	0.2791	0.2326	0.1938	0.1615	0,1346	0.1122	0.0935	6/2/00	0.0849	0.0541	0.0451	0.0376	0.0313	0.0261	0.0217	0.0181	0.0151	0.0126	0.0105	0.0042	0.0017	0.0007	0.0001	0,0000
18%	0.8475	0.7182	0.6086	0.5158	0,4371	0.3704	0.3139	0.2660	0.2255	0.1911	0,1619	0.1372	0.1163	0,0985	0.0835	0.0708	0.0900	0.0508	0.0431	0.0365	0.0309	0.0262	0.0222	0.0188	0.0160	0.0070	0.0030	0.0013	0.0003	0.0000
16%	0.8621	0.7432	0.6407	0.5523	0,4761	0.4104	0.3538	03060	0.2630	0.2267	0.1954	0.1685	0.1452	0.1252	0.1079	0.0930	0.0802	0.0691	0.0596	0.0514	0.0443	0.0382	0.0329	0.0284	0.0245	0.0116	0.0055	0.0026	900000	0.0001
14%	0.8772	0.7695	0.6750	0.5921	0.5194	0.4556	0.3996	0.3506	0.3075	0.2697	0.2388	0.2076	0.1821	0.1597	0.1401	0.1229	0.1078	0.0946	0.0829	0.0728	0.0638	0.0580	0.0491	0.0431	0.0378	0.0196	0.0102	0.0053	0.0014	0.0004
12%	0.8929	0.7972	0.7118	0.6355	0.5874	0.5066	0.4523	0.4039	0.3806	0.3220	0.2875	0.2567	0.2292	0.2046	0.1827	0.1631	0.1456	0.1300	0.1161	0.1037	0.0926	0.0826	0.0738	0.0659	0.0588	0.0334	0.0189	0.0107	0.0035	0.0011
10%	0.9091	0.8264	0.7513	0.6830	0.6209	0.5645	0.5132	0.4665	0.4241	0,3855	0,3505	0.3186	0.2897	0.2633	0.2394	0.2176	0,1978	0.1799	0.1635	0.1486	0.1351	0.1228	0.1117	0.1015	0.0923	0.0573	0.0356	0.0221	0.0085	0.0033
9%6	0.9174	0,8417	0.7722	0.7084	0.6499	0.5963	0.5470	0.5019	0.4604	0.4224	0.3875	0.3555	0.3262	0.2992	0.2745	0.2519	0,2311	0.2120	0.1945	0.1784	0.1637	0.1502	0.1378	0.1264	0.1160	0.0754	0.0490	0.0318	0.0134	0.0057
8%	0.9259	0,8573	0.7938	0.7350	0.6806	0.6302	0.5835	0.5403	0.5002	0.4632	0.4289	0.3971	0.3677	0.3405	0.3152	0.2919	0.2703	0.2502	0.2317	0.2145	0.1987	0.1839	0.1703	0.1577	0.1460	0.0994	0.0876	0.0460	0.0213	0.0099
7%	0.9346	0.8734	0.8163	0.7629	0.7130	0.6663	0.6227	0.5820	0,5439	0.5083	0.4751	0.4440	0.4150	0.3878	0.3624	0.3387	0.3166	0.2959	0.2765	0,2584	0.2415	0.2257	0.2109	0.1971	0.1842	0.1314	0.0937	0.0668	0.0339	0.0173
6%	0.9434	0.8900	0.8396	0.7921	0.7473	0.7050	0.6651	0.6274	0.5919	0.5584	0.5268	0.4970	0.4688	0.4423	0.4173	0.3936	0.3714	0.3503	0.3305	0.3118	0.2942	0.2775	0.2618	0.2470	0.2330	0.1741	0.1301	0.0972	0.0543	0.0303
5%	0.9524	0.9070	0.8638	0.8227	0.7835	0.7452	0.7107	0.6768	0.6448	0.6139	0.5847	0.5568	0.5303	0.5051	0.4810	0.4581	0.4363	0.4155	0.3957	0.3769	0.3589	0.3418	0.3256	0.3101	0.2953	0.2314	0.1813	0.1420	0.0872	0.0635
4%	0.9615	0.9246	0.8890	0.8548	0.8219	0.7903	0.7599	0.7307	0.7026	0.6756	0,6496	0.6246	9009'0	0.5775	0.5553	0.5339	0.5134	0.4936	0.4746	0.4584	0.4388	0.4220	0.4057	0.3901	0.3751	0.3083	0.2534	0.2083	0,1407	0.0951
3%	0.9709	0.9426	0.9151	0.8885	0.8626	0.8375	0.8131	0.7894	0.7664	0.7441	0.7224	0.7014	0.6810	0.6611	0.6419	0.6232	0.6050	0.5874	0.5703	0.5537	0.5375	0.5219	0.5067	0.4919	0.4778	0.4120	0.3554	0.3066	0.2281	0.1697
2%	0.9804	0.9612	0.9423	0.9238	0.9057	0.8880	90/8/0	0.8535	0.8368	0.8203	0.8043	0.7885	0.7730	0.7579	0.7430	0.7284	0.7142	0.7002	0.6864	0.6730	0.6598	0,6468	0.6342	0.6217	0.6095	0.5521	0.5000	0.4529	0.3715	0.3048
1%	0.9901	0,9803	0.9706	0.9810	0.9515	0.9420	0.9327	0.9235	0.9143	0.9053	0.8963	0.8874	0.8787	0.8700	0.8613	0.8528	0.8444	0.8360	0.8277	0.8195	0.8114	0.8034	0.7954	0.7876	0.7798	0.7419	0,7059	0.6717	0.6080	0.5504
Period	+	2	3	4	22	9	7	89	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	30	35	40	90	89

Table 3: Present Value Interest Factor for RM 1.00 Annuity Discounted: PVIFA r,n = [1-1/(1 + r)]/r

1, 10, 10, 10, 10, 10, 10, 10, 10, 10,																															
15.8 25.8 45.8 45.8 75.8 95.9 17.8 17.9 <th< td=""><td>30%</td><td>0.7692</td><td>1,3609</td><td>1.8161</td><td>2.1662</td><td>2,4356</td><td>2.6427</td><td>2.8021</td><td>2.9247</td><td>3.0190</td><td>3,0915</td><td>3.1473</td><td>3,1903</td><td>3.2233</td><td>3.2487</td><td>3.2682</td><td>3.2832</td><td>3.2948</td><td>3.3037</td><td>3,3105</td><td>3,3158</td><td>3,3198</td><td>3.3230</td><td>3,3254</td><td>3.3272</td><td>3.3286</td><td>3.3321</td><td>3.3330</td><td>3.3332</td><td>3.3333</td><td>3,3333</td></th<>	30%	0.7692	1,3609	1.8161	2.1662	2,4356	2.6427	2.8021	2.9247	3.0190	3,0915	3.1473	3,1903	3.2233	3.2487	3.2682	3.2832	3.2948	3.3037	3,3105	3,3158	3,3198	3.3230	3,3254	3.3272	3.3286	3.3321	3.3330	3.3332	3.3333	3,3333
15.8 25.8 48.8 58.4 77.8 78.9 77.8 17.8 17.8 18.9 18.9 27.8 27.8 27.8 28.9 28.9 28.9 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8 20.8 20.8 20.8 10.8 <th< td=""><td>28%</td><td>0.7813</td><td>1,3916</td><td>1.8684</td><td>2.2410</td><td>2.5320</td><td>2.7594</td><td>2.9370</td><td>3.0758</td><td>3.1842</td><td>3.2689</td><td>3.3351</td><td>3.3868</td><td>3.4272</td><td>3.4587</td><td>3.4834</td><td>3,5026</td><td>3,5177</td><td>3.5294</td><td>3,5386</td><td>3.5458</td><td>3,5514</td><td>3.5558</td><td>3,5592</td><td>3.5619</td><td>3.5640</td><td>3.5693</td><td>3.5708</td><td>3.5712</td><td>3.5714</td><td>3.5714</td></th<>	28%	0.7813	1,3916	1.8684	2.2410	2.5320	2.7594	2.9370	3.0758	3.1842	3.2689	3.3351	3.3868	3.4272	3.4587	3.4834	3,5026	3,5177	3.5294	3,5386	3.5458	3,5514	3.5558	3,5592	3.5619	3.5640	3.5693	3.5708	3.5712	3.5714	3.5714
15. 25.6 45.6 66.6 77.6 67.6 17.6	26%	0.7937	1,4235	1.9234	2.3202	2.6351	2.8850	3,0833	3.2407	3.3657	3.4648	3.5435	3.6059	3.6555	3.6949	3.7261	3.7509	3.7706	3.7861	3,7985	3.8083	3,8161	3.8223	3.8273	3.8312	3.8342	3.8424	3.8450	3.8458	3.8461	3.8462
1986 298 498 998 10	24%	0.8065	1,4568	1.9813	2.4043	2.7454	3.0205	3.2423	3,4212	3,5655	3,6819	3.7757	3.8514	3.9124	3.9616	4,0013	4,0333	4.0591	4.0799	4.0967	4,1103	4.1212	4.1300	4.1371	4.1428	4,1474	4.1601	4.1644	4.1659	4,1666	4,1667
196 296 696 796 696 796 696 796 696 796 696 796 796 796 796 796 796 797 <td>22%</td> <td>0.8197</td> <td>1,4915</td> <td>2.0422</td> <td>2,4936</td> <td>2.8636</td> <td>3.1669</td> <td>3,4155</td> <td>3.6193</td> <td>3.7863</td> <td>3.9232</td> <td>4.0354</td> <td>4.1274</td> <td>4.2028</td> <td>4.2646</td> <td>4.3152</td> <td>4.3567</td> <td>4.3908</td> <td>4.4187</td> <td>4,4415</td> <td>4.4603</td> <td>4,4756</td> <td>4.4882</td> <td>4.4985</td> <td>4.5070</td> <td>4,5139</td> <td>4.5338</td> <td>4.5411</td> <td>4.5439</td> <td>4.5452</td> <td>4.5454</td>	22%	0.8197	1,4915	2.0422	2,4936	2.8636	3.1669	3,4155	3.6193	3.7863	3.9232	4.0354	4.1274	4.2028	4.2646	4.3152	4.3567	4.3908	4.4187	4,4415	4.4603	4,4756	4.4882	4.4985	4.5070	4,5139	4.5338	4.5411	4.5439	4.5452	4.5454
1,1% 2,1% 4,8 6% 7% 6% 9% 10% 12% 4% 6% 7% 6% 9% 10% 12% 1,0% 11% 1,0% 11% 1,0% 11% 1,0% 11% 1,0% 11% 1,0%<	20%	0.8333	1.5278	2.1065	2.5887	2.9906	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	4.9094	4.9245	4.9371	4.9476	4.9789	4.9915	4.9966	4,9995	4,9999
11/16 22/6 33/6 48/6 58/6 67/6 77/6 68/6 77/6 68/6 77/6 68/6 77/6 68/6 77/6 68/6 77/6 68/6 77/6 68/6 77/6 68/6 77/6 68/6 77/6 68/6 77/6 71/7 71/7 71/7 71/2 78/2 71/2 72/2 71/2 72/2 71/2 72/2 71/2 72/2 71/2 72/2 71/2 72/2 71/2 72/2 71/2 72/2 <t< td=""><td>18%</td><td>0.8475</td><td>1,5656</td><td>2.1743</td><td>2.6901</td><td>3.1272</td><td>3,4976</td><td>3,8115</td><td>4.0776</td><td>4.3030</td><td>4,4941</td><td>4.6560</td><td>4.7932</td><td>4.9095</td><td>5.0081</td><td>5.0916</td><td>5.1624</td><td>5,2223</td><td>5.2732</td><td>5,3162</td><td>5.3527</td><td>5,3837</td><td>5.4099</td><td>5.4321</td><td>5.4509</td><td>5.4669</td><td>5.5168</td><td>5.5386</td><td>5.5482</td><td>5,5541</td><td>5,5553</td></t<>	18%	0.8475	1,5656	2.1743	2.6901	3.1272	3,4976	3,8115	4.0776	4.3030	4,4941	4.6560	4.7932	4.9095	5.0081	5.0916	5.1624	5,2223	5.2732	5,3162	5.3527	5,3837	5.4099	5.4321	5.4509	5.4669	5.5168	5.5386	5.5482	5,5541	5,5553
11% 2% 3% 6% 6% 7% 8% 9% 10% 12% 0.9901 0.9804 0.9708 0.9615 0.9624 0.9434 0.8346 0.9259 0.9174 0.9018 0.9618 0.9624 0.9434 0.8346 0.9259 0.9174 0.9081 0.8062 0.9178 1.8861 1.8694 1.8324 1.8089 1.7531 2.639 2.6479 2.6489 2.6489 2.6489 2.6489 2.6689 2.6489 2.6689 2.6489 2.6689 2.6689 2.6689 2.6689 2.6689 2.6689 2.6689 2.	16%	0.8621	1.6052	2.2459	2.7982	3.2743	3.6847	4.0386	4.3436	4.6065	4.8332	5.0286	5.1971	5.3423	5.4675	5.5755	5.6685	5.7487	5.8178	5.8775	5.9288	5.9731	6.0113	6.0442	6.0726	6.0971	6.1772	6.2153	6.2335	6.2463	6.2492
178 278 396 496 678 778 896 1796 1797 </td <td>14%</td> <td>0.8772</td> <td>1.6467</td> <td>2.3216</td> <td>2.9137</td> <td>3,4331</td> <td>3,8887</td> <td>4.2883</td> <td>4,6389</td> <td>4.9464</td> <td>5.2161</td> <td>5.4527</td> <td>5.6603</td> <td>5.8424</td> <td>6.0021</td> <td>6.1422</td> <td>6,2651</td> <td>6.3729</td> <td>6,4874</td> <td>6.5504</td> <td>6.6231</td> <td>6.6870</td> <td>6.7429</td> <td>6.7921</td> <td>6.8351</td> <td>6.8729</td> <td>7.0027</td> <td>7.0700</td> <td>7.1050</td> <td>7.1327</td> <td>7,1401</td>	14%	0.8772	1.6467	2.3216	2.9137	3,4331	3,8887	4.2883	4,6389	4.9464	5.2161	5.4527	5.6603	5.8424	6.0021	6.1422	6,2651	6.3729	6,4874	6.5504	6.6231	6.6870	6.7429	6.7921	6.8351	6.8729	7.0027	7.0700	7.1050	7.1327	7,1401
1% 2% 3% 4% 5% 6% 7% 8% 9% 9% 1,9901 0,9904 0,9709 0,9615 0,9524 0,9246 0,9246 0,9734 1,9704 1,9416 1,9705 1,8694 1,8334 1,8094 1,8734 1,8090 1,7751 2,7232 2,8730 2,6243 2,5717 2,5313 1,7591 2,9410 2,8839 2,8288 2,7751 2,7232 2,8730 2,6243 2,5717 2,5313 1,7591 3,3371 3,3397 3,3460 3,4861 3,3872 3,3121 3,2397 3,4862 3,4861 3,3872 3,5397 3,5460 3,4861 3,3872 3,5482 3,3872 3,5397 3,5482 3,3872 3,5482 3,5893 3,5486 3,5482 <td>12%</td> <td>0.8929</td> <td>1.6901</td> <td>2.4018</td> <td>3.0373</td> <td>3.6048</td> <td>4,1114</td> <td>4.5638</td> <td>4.9676</td> <td>5,3282</td> <td>5.6502</td> <td>5.9377</td> <td>6.1944</td> <td>6.4235</td> <td>6.6282</td> <td>6.8109</td> <td>6,9740</td> <td>7,1196</td> <td>7.2497</td> <td>7.3658</td> <td>7.4694</td> <td>7.5620</td> <td>7.6446</td> <td>7.7184</td> <td>7.7843</td> <td>7.8431</td> <td>8.0652</td> <td>8.1755</td> <td>8.2438</td> <td>8.3045</td> <td>8.3240</td>	12%	0.8929	1.6901	2.4018	3.0373	3.6048	4,1114	4.5638	4.9676	5,3282	5.6502	5.9377	6.1944	6.4235	6.6282	6.8109	6,9740	7,1196	7.2497	7.3658	7.4694	7.5620	7.6446	7.7184	7.7843	7.8431	8.0652	8.1755	8.2438	8.3045	8.3240
1% 2% 3% 4% 5% 6% 7% 8% 0.9901 0.9804 0.9709 0.9615 0.9624 0.9434 0.9436 0.9559 1.3704 1.3416 1.9135 1.8861 1.8524 1.8034 1.7833 0.9259 2.9410 2.8839 2.8286 2.7751 2.7232 2.6730 2.6243 2.5771 3.9020 3.8077 3.7171 3.6299 3.4651 4.7024 4.1002 3.9627 5.7965 5.6014 5.7171 3.6299 3.5460 4.7173 4.7665 4.6229 5.7965 5.6014 5.7171 3.6299 3.5460 3.7173 4.7665 4.6229 5.7965 5.6014 5.7176 4.7373 4.7665 4.6229 5.7466 6.7280 8.7109 6.7274 4.9173 4.7665 4.6229 5.7466 8.7681 8.7302 8.1109 7.7214 4.7002 3.9627 5.7466 1.2561	10%	0.9091	1,7355	2.4869	3.1699	3.7908	4.3553	4.8684	5.3349	5,7590	6.1446	6.4951	6,8137	7.1034	7,3667	7,6061	7.8237	8.0216	8,2014	8.3649	8.5136	8.6487	8.7715	8.8832	8.9847	9.0770	9.4269	9.6442	9.7791	9.9148	9.9672
1% 2% 3% 4% 5% 6% 7% 0.9901 1,986 3,976 0.9615 0.9624 0.9434 1934 1,9704 1,9416 1,9135 1,8861 1,8324 1,8034 1,8034 2,9410 2,8839 2,7751 2,7232 2,8730 2,6243 3,9020 3,8077 3,7171 3,6299 3,5460 3,4792 4,2124 4,1002 5,7955 5,6014 5,4772 5,2421 5,7264 5,3803 1,7002 6,7282 6,4720 6,2303 6,0021 5,7864 5,9824 5,3803 1,2585 6,4720 6,2303 6,0021 5,7864 5,9824 5,9864 9,4713 8,9826 8,5302 8,1109 7,7217 7,3801 7,0326 1,2586 10,575 9,984 9,386 9,2864 9,386 9,2860 9,2860 9,2860 9,2860 9,2860 1,4365 1,4366 1,4366 1,4366 1,4366	%6	0.9174	1,7591	2.5313	3,2397	3.8897	4,4859	5.0330	5.5348	5,9962	6.4177	6.8052	7,1607	7,4869	7.7862	8.0607	8.3126	8.5436	8,7558	8.9501	9.1285	9.2922	9.4424	9,5802	9.7066	9.8228	10.274	10,567	10,757	10.962	11.048
1% 2% 3% 4% 5% 6%<	8%	0.9259	1.7833	2.5771	3.3121	3.9927	4.6229	5.2064	5.7466	6.2469	6.7101	7.1390	7,5361	7.9038	8.2442	8,5595	8,8514	9.1216	9,3719	9.6036	9.8181	10.017	10.201	10.371	10,529	10.675	11.258	11.655	11.925	12.233	12.377
1% 2% 3% 4% 5% 0.9901 2,8% 3% 4% 5% 0.9901 0.9804 0.9709 0.9615 0.9524 1.9704 1.9416 1.9135 1.8861 1.8594 2.9410 2.8839 2.8286 2.7751 2.7232 3.9020 3.8077 3.7171 3.6299 3.5460 4.8534 4.7135 4.5797 4.4518 4.3295 5.7955 5.6014 5.4172 5.2421 5.7864 7.6517 7.3256 7.0197 6.7327 6.4632 8.5860 8.787 9.253 8.760 8.3064 11.256 10.575 9.964 9.385 8.8633 12.134 10.635 8.986 9.3956 13.064 11.236 10.633 9.9864 13.865 12.849 11.838 11.118 10.380 14.718 13.249 11.234 10.633 11.274 15.862 14	%2	0.9346	1,8080	2.6243	3.3872	4.1002	4.7665	5,3893	5.9713	6.5152	7.0236	7.4987	7.9427	8.3577	8.7455	9.1079	9.4466	9.7632	10,059	10.336	10,594	10.836	11,061	11.272	11,469	11.654	12.409	12.948	13.332	13.801	14.039
1% 2% 3% 4% 0.9901 28904 0.9709 0.9615 1.9704 1.9416 1.9135 1.8861 2.9410 2.8839 2.8286 2.751 3.9020 3.8077 3.7171 3.6299 4.8534 4.7135 4.5797 4.4518 5.7365 5.6014 5.4172 5.2421 6.7282 6.4720 6.2303 6.0021 7.6517 7.3255 7.0197 6.7327 8.5660 8.1622 7.7861 7.4353 9.4713 8.9626 8.5302 8.1109 10.369 9.787 9.264 9.386 11.256 10.575 9.964 9.386 12.13 8.526 8.760 11.18 12.13 11.348 10.635 9.964 13.865 12.849 11.936 11.18 14.718 13.578 12.166 11.18 14.718 14.877 13.59 14.87 <td>96%</td> <td>0.9434</td> <td>1.8334</td> <td>2.6730</td> <td>3.4651</td> <td>4,2124</td> <td>4.9173</td> <td>5.5824</td> <td>6.2098</td> <td>6.8017</td> <td>7.3601</td> <td>7.8869</td> <td>8.3838</td> <td>8.8527</td> <td>9.2950</td> <td>9.7122</td> <td>10,106</td> <td>10.477</td> <td>10,828</td> <td>11.158</td> <td>11.470</td> <td>11.764</td> <td>12.042</td> <td>12.303</td> <td>12,550</td> <td>12,783</td> <td>13.765</td> <td>14,498</td> <td>15,046</td> <td>15.762</td> <td>16.161</td>	96%	0.9434	1.8334	2.6730	3.4651	4,2124	4.9173	5.5824	6.2098	6.8017	7.3601	7.8869	8.3838	8.8527	9.2950	9.7122	10,106	10.477	10,828	11.158	11.470	11.764	12.042	12.303	12,550	12,783	13.765	14,498	15,046	15.762	16.161
1% 2% 3% 0.9901 2% 3% 0.9904 0.9709 1.9135 1.9704 1.9416 1.9135 2.9410 2.8839 2.8286 3.9020 3.8077 3.7171 4.8534 4.7135 4.5797 5.7955 5.6014 5.4172 6.7282 6.4720 6.2303 7.6517 7.3255 7.0197 8.5660 8.1622 7.7861 9.4713 8.9826 8.5302 11.255 10.575 9.954 12.134 11.248 10.635 13.004 12.106 11.296 13.865 14.292 13.166 14.718 13.578 12.561 14.718 13.578 12.644 15.562 14.877 14.877 18.046 16.878 15.937 20.456 18.292 16.444 21.243 18.914 16.836 22.023 19.523	8%8	0.9524	1,8594		3.5460	4,3295	5.0757	5.7864	6.4632		7.7217	8.3064	8.8633	9.3936	9.8986	10,380	10.838			12.085		12.821	13,163	13.489	13,799	14.094		16.374	17.159		18.929
19704 1,9416 1,9704 1,9416 2,9410 2,8839 3,9020 3,8077 4,8534 4,7135 5,7955 5,6014 6,7282 6,4720 7,6517 7,3255 1,2580 8,1622 9,4713 8,9826 10,388 9,787 11,256 10,575 11,248 11,348 13,004 12,106 13,865 12,849 14,718 13,578 15,562 14,292 14,718 13,578 15,562 14,292 14,718 13,578 15,562 14,292 14,718 13,578 15,562 14,292 12,243 18,914 22,023 19,523 22,023 19,523 22,023 19,523 22,0409 24,999 32,835 27,355	4%	0.9615	1,8861	2.7751	3.6299	4,4518	5.2421	6.0021	6.7327	7.4353	8.1109	8.760	9,385	9.986	10,563	11,118	11.652	12.166	12,659	13.134	13,590	14.029	14,451	14.857	15.247	15.622	17.292	18,665	19,793	21.482	22.623
1% 0.9901 1.9704 2.9410 3.9020 4.8534 5.7955 6.7282 7.6517 8.5660 9.4713 10.368 11.255 11.256 11.256 11.256 11.256 11.256 11.256 11.256 11.256 11.256 11.256 11.256 12.134 12.134 13.865 11.256 12.134 13.865 11.256 12.134 13.865 12.134 13.865 12.256 12.243 19.660 20.456 21.243 22.023 25.808 29.409 32.835 38.196	3%	0.9709	1.9135	2.8286	3.7171	4.5797	5.4172	6.2303	7.0197	7,7861	8.5302	9.253	9.954	10.635	11.296	11.938	12.561	13.166	13.754	14.324	14.877	15.415	15,937	16.444	16.936	17.413	19.600	21.487	23.115	25.730	27.676
	2%	0.9804	1,9416	2.8839	3.8077	4,7135	5.6014	6.4720	7,3255	8.1622	8.9826	9.787	10.575	11.348	12,106	12.849	13.578	14.292	14,992	15.678	16.351	17.011	17,658	18.292	18,914	19.523	22.396	24.999	27.355	31.424	34.761
Period Period 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1%	0.9901	1.9704	2.9410	3.9020	4,8534	5.7955	6.7282	7.6517	8.5660	9.4713	10,368	11,255	12.134	13,004	13,865	14.718	15,562	16,398	17.226	18,046	18.857	19,660	20.456	21.243	22.023	25.808	29.409	32.835	39.198	44,955
	Period	+	2	3	4	22	9	7	80	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	30	36	40	90	09

Table 4: Future Value Interest Factor for RM 1.00 Annuity Compounded: FVIFA r,n = [(1 + r)^t - 1]/r

LIST OF FORMULAS

1) Current Ratio =
$$\frac{Current \ asset}{Current \ liabilities}$$

2)
$$Quick\ Ratio = \frac{Current\ asset-inventory}{Current\ liabilities}$$

3) Average Collection Period =
$$\frac{Accounts\ receivables}{Sales}$$
 x 360

4) Account receivables turnover =
$$\frac{Sales}{Accounts\ Receivable}$$

5) Inventory turnover =
$$\frac{cogs}{Inventory}$$

6) Fixed asset turnover =
$$\frac{Sales}{Fixed \ asset}$$

7)
$$Total \ asset \ turnover = \frac{Sales}{Total \ asset}$$

8)
$$Gross Profit Margin = \frac{Gross Profit}{Sales}$$

9) Operating Profit Margin =
$$\frac{EBIT}{Sales}$$

10) Net Profit Margin =
$$\frac{Net\ Profit}{Sales}$$

11) Return on Asset =
$$\frac{Net\ Profit}{Total\ Asset}$$

12) Return on equity =
$$\frac{Net Profit}{Total Equity}$$

13)
$$Debt\ ratio = \frac{Total\ liabilities}{Total\ asset}$$

14) Debt to equity ratio =
$$\frac{Long Term Liability}{Total Equity}$$

15) Times interest earned =
$$\frac{EBIT}{Interest}$$

16)
$$PV = FV \left(PVIF_{\frac{k}{m'}, nxm} \right)$$

17)
$$FV = PV \left(FVIF_{\frac{k}{m'}, nxm} \right)$$

18)
$$PVIFA = A\left(PVIFA_{\frac{k}{m'}} nxm\right)$$

19)
$$FVIFA = A\left(FVIFA_{\frac{k}{m'}, nxm}\right)$$

$$20) \quad Vs = \frac{D}{K}$$

21)
$$Vs = \frac{D_o(1+g)}{k-g}$$
 , OR $Vs = \frac{D_1}{k-g}$

22)
$$D_n = D_{n-1} (1+g)$$

23)
$$SP_n = \frac{D_n (1+g)}{k-g}$$

24)
$$Vb = \frac{c}{m} \left(PVIFA_{\frac{k}{m}, nxm} \right) + PV \left(PVIF_{\frac{k}{m'}, nxm} \right)$$

$$25) \quad CY = \frac{c\% x PV}{Vb}$$

26)
$$YTM = \frac{\left[\frac{c\% \times PV}{m}\right] + \left[\frac{PV - MP}{n \times m}\right]}{\left[\frac{PV + MP}{2}\right]}$$

27)
$$YTC = \frac{\left[\frac{C^{N} \times PV}{m}\right] + \left[\frac{CP - MP}{n \times m}\right]}{\left[\frac{CP + MP}{2}\right]}$$

28)
$$PP = Year \ of \ Full \ Recovery + \left(\frac{Investment - a}{b}\right)$$

29)
$$NPV = (\sum CF \times PVIF_{k,n}) - Investment$$

30)
$$AROR = \left(\frac{Average\ Cash\ Flow}{Investment}\right) x\ 100$$

31)
$$K_{CAPM} = rf + \beta (rm - rf)$$