

CONFIDENTIAL

DECEMBER 2025/SET A/FIN2203



FINAL EXAMINATION

**BACHELOR OF BUSINESS ADMINISTRATION (HONOURS)
BACHELOR OF BUSINESS ADMINISTRATION (HONOURS)
HUMAN RESOURCE MANAGEMENT**

COURSE	: FINANCIAL MANAGEMENT
COURSE CODE	: FIN2203
DURATION	: 3 HOURS

INSTRUCTIONS TO CANDIDATES:

1. This question paper consists of **FOUR (4)** questions.
2. Answer **ALL** questions in the Answer Booklet provided.
3. Please check to make sure that this examination pack consists of:
 - i. The Question Paper
 - ii. An Answer Booklet
 - iii. Appendix 1-5
4. Do not bring any material into the examination hall. The use of calculator is allowed.
5. Please write your answer using permanent ink.

MYKAD/ PASSPORT NO : _____
ID. NO. : _____
LECTURER : _____
SECTION : _____

DO NOT OPEN THIS QUESTION PAPER UNTIL YOU ARE TOLD TO DO SO

This question paper consists of 8 printed pages including the front page.

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QUESTION 1

Zeddy Sdn Bhd has shown weak performance in recent periods. Consequently, the managing director has instructed the financial manager, Zuraidah, to carry out an analysis of the company's financial position. The financial statements are provided below.

Zeddy Sdn Bhd
Statement of Financial Position as at 31st March 2026

	RM
Cash	1,000
Account receivables	15,000
Inventory	10,000
Bank	13,700
Non-current assets	100,000
Total assets	<u>139,700</u>
Accounts payable	15,000
Accruals	8,000
Short term loan	1,700
Long term debt	50,000
Share capital	53,000
Retained earnings	12,000
Total liabilities and equity	<u>139,700</u>

Zeddy Sdn Bhd
Statement of Profit or Loss and Other Comprehensive Income
for the Year Ended 31st March 2026

	RM
Net Sales	500,000
Less: Cost of good sold	140,000
Operating expenses	250,000
Interest	21,000
Less: Taxes (25%)	22,250
Net profit	<u>66,750</u>

Notes:

- i. 30% of net sales are on cash term.
- ii. Opening inventories as at 1st April 2025 was RM10,000.
- iii. The company uses a 360-day year.

Below are the most recent industry average ratios:

Industry Average Ratios

Current ratio	2.0 x	Net profit margin	20.0%
Inventory turnover	15.0 x	Return on total assets	50.0%
Average collection period	11 days	Debt ratio	50.0%
Gross profit margin	65%	Times-interest earned	6.0 x

Required:

- a. Find the relevant ratios from the financial statements provided above.
(17 marks)
 - b. Based on your answer in (a) above, comment the performance of the company as compared to the industry average ratios.
(8 marks)
- (Total: 25 marks)

QUESTION 2

Bursa Vista Asset Management is considering adding one of the following stocks to its "balanced growth" fund: Stock A, Stock B, or Stock C.

The analyst believes stock returns next year depend on the overall economy, with the following probabilities:

- Boom: 0.25
- Normal 0.5
- Recession: 0.25

Returns under each stock are as follows:

Scenario	Stock A	Stock B	Stock C
Boom	28%	18%	22%
Normal	14%	12%	13%
Recession	-6%	6%	2%

Required:

Using the probability and return information given for each stock, calculate the following:

- Expected return for Stock A, B and C.
(6 marks)
 - Standard deviation for Stock A, B and C.
(9 marks)
 - Coefficient of variation for Stock A, B and C.
(3 marks)
 - Based on the results above, as a rational investor, recommend one stock for investment.
(2 marks)
- (Total: 20 marks)

QUESTION 3

On 1 January 2027, Orion Food Industries Bhd, a food processing company based in Negeri Sembilan, decided to expand its production capacity by installing a new automated packaging machine to meet increasing demand from retail chains.

The company had previously conducted a market feasibility study on 15 November 2025, which cost RM30,000.

On 1 February 2027, the company will buy the new machine for RM1,850,000. Other costs include:

- Installation and testing: RM65,000
- Worker training: RM20,000

The company will also need extra working capital:

- Increase in inventory: RM70,000
- Increase in accounts receivable: RM60,000
- Increase in accounts payable: RM40,000

The machine will be used for 6 years and depreciated by RM299,167. It is expected to have a salvage value of RM120,000 at the end of year 6.

The new automated packaging machine is expected to generate an additional RM420,000 in sales revenue each year. It will help the company reduce direct labour costs by RM160,000 annually and lower maintenance expenses by RM55,000 per year. However, the machine will also cause an increase in utilities and quality control costs of RM90,000 per year.

Orion Food Industries Bhd uses a cost of capital of 10% and is subject to a corporate tax rate of 24%.

Required:

- a. Find the following:
- i. Initial outlay. (9 marks)
 - ii. Annual differential after-tax cash flow. (10 marks)
 - iii. Terminal cash flow. (2 marks)
 - iv. Payback period. (2 marks)
 - v. Net present value. (5 marks)

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DECEMBER 2025/SET A/FIN2203

- b. If you are the financial manager of Orion Food Industries Bhd, evaluate whether the company should proceed with the purchase of new automated packaging machine.
(2 marks)

(Total: 30 marks)

QUESTION 4

BrightMind Digital Bhd is an education technology company that provides cloud-based learning management systems (LMS) for universities and professional training institutes across Malaysia. Due to increasing demand for remote learning, the company is planning to invest in a new AI-powered virtual classroom platform with an initial cost of RM18 million. The relevant financial information is summarised below:

Financing Component	Details
Proposed capital structure	- Debt 35% - Preference Shares 10% - Ordinary Shares 30% - Retained Earnings 25%
Long-term debt	7% debentures, 8-year maturity, par value RM1,000, current market price RM970, flotation cost RM30 per bond
Preference shares	8% cumulative, par value RM100, current market price RM105, flotation cost 4% of market price
Ordinary shares	Market price RM48, last dividend RM3.20, expected growth rate 5% per year, flotation cost 6% of market price
Retained earnings	RM4.5 million available
Corporate tax rate	24%

Required:

- a. Determine the cost of capital for:
- Debt after tax. (7 marks)
 - Preference shares. (2 marks)
 - Internal equity. (4 marks)
 - External equity. (5 marks)

- b. Assess the maximum capital expenditure the company can undertake without issuing new stock.
(2 marks)
 - c. If the company uses internal equity for financing, determine the Weighted Average Cost of Capital (WACC).
(5 marks)
- (Total: 25 marks)

END OF QUESTION PAPER

Future Value Interest Factor of \$1 per period at i% for n periods, FVIF(i,n)

Period	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	12%	14%	16%	18%	20%	21%	22%	23%	24%	25%
1	1.0100	1.0200	1.0300	1.0400	1.0500	1.0600	1.0700	1.0800	1.0900	1.1000	1.1200	1.1400	1.1600	1.1800	1.2000	1.2100	1.2200	1.2300	1.2400	1.2500
2	1.0201	1.0404	1.0609	1.0816	1.1025	1.1236	1.1449	1.1664	1.1881	1.2100	1.2544	1.2996	1.3456	1.3924	1.4400	1.4641	1.4884	1.5129	1.5376	1.5625
3	1.0303	1.0612	1.0927	1.1249	1.1576	1.1910	1.2250	1.2597	1.2950	1.3310	1.4049	1.4815	1.5609	1.6430	1.7280	1.7716	1.8158	1.8609	1.9066	1.9531
4	1.0406	1.0824	1.1255	1.1699	1.2155	1.2625	1.3108	1.3605	1.4116	1.4641	1.5735	1.6890	1.8106	1.9388	2.0736	2.1436	2.2153	2.2889	2.3642	2.4414
5	1.0510	1.1041	1.1593	1.2167	1.2763	1.3382	1.4026	1.4693	1.5386	1.6105	1.7623	1.9254	2.1003	2.2878	2.4883	2.5937	2.7027	2.8153	2.9316	3.0518
6	1.0615	1.1262	1.1941	1.2653	1.3401	1.4185	1.5007	1.5869	1.6771	1.7716	1.9738	2.1950	2.4364	2.6996	2.9860	3.1384	3.2973	3.4628	3.6352	3.8147
7	1.0721	1.1487	1.2299	1.3159	1.4071	1.5036	1.6058	1.7138	1.8280	1.9487	2.2107	2.5023	2.8262	3.1855	3.5832	3.7975	4.0227	4.2593	4.5077	4.7684
8	1.0829	1.1717	1.2668	1.3686	1.4775	1.5938	1.7182	1.8509	1.9926	2.1436	2.4760	2.8526	3.2784	3.7589	4.2998	4.5950	4.9077	5.2389	5.5895	5.9605
9	1.0937	1.1951	1.3048	1.4233	1.5513	1.6895	1.8385	1.9990	2.1719	2.3579	2.7731	3.2519	3.8030	4.4355	5.1598	5.5599	5.9874	6.4439	6.9310	7.4506
10	1.1046	1.2190	1.3439	1.4802	1.6289	1.7908	1.9672	2.1589	2.3674	2.5937	3.1058	3.7072	4.4114	5.2338	6.1917	6.7275	7.3046	7.9259	8.5944	9.3132
11	1.1157	1.2434	1.3842	1.5395	1.7103	1.8983	2.1049	2.3316	2.5804	2.8531	3.4785	4.2262	5.1173	6.1759	7.4301	8.1403	8.9117	9.7489	10.6571	11.6415
12	1.1268	1.2682	1.4258	1.6010	1.7959	2.0122	2.2522	2.5182	2.8127	3.1384	3.8960	4.8179	5.9360	7.2876	8.9161	9.8497	10.8722	11.9912	13.2148	14.5519
13	1.1381	1.2936	1.4685	1.6651	1.8856	2.1329	2.4098	2.7196	3.0658	3.4523	4.3635	5.4924	6.8858	8.5994	10.6993	11.9182	13.2641	14.7491	16.3863	18.1899
14	1.1495	1.3195	1.5126	1.7317	1.9799	2.2609	2.5785	2.9372	3.3417	3.7975	4.8871	6.2613	7.9875	10.1472	12.8392	14.4210	16.1822	18.1414	20.3191	22.7374
15	1.1610	1.3459	1.5580	1.8009	2.0789	2.3966	2.7590	3.1722	3.6425	4.1772	5.4736	7.1379	9.2655	11.9737	15.4070	17.4494	19.7423	22.3140	25.1956	28.4217
16	1.1726	1.3728	1.6047	1.8730	2.1829	2.5404	2.9522	3.4259	3.9703	4.5950	6.1304	8.1372	10.7480	14.1290	18.4884	21.1138	24.0856	27.4462	31.2426	35.5271
17	1.1843	1.4002	1.6528	1.9479	2.2920	2.6928	3.1588	3.7000	4.3276	5.0545	6.8660	9.2765	12.4677	16.6722	22.1861	25.5477	29.3844	33.7588	38.7408	44.4089
18	1.1961	1.4282	1.7024	2.0258	2.4066	2.8543	3.3799	3.9960	4.7171	5.5599	7.6900	10.5752	14.4625	19.6733	26.6233	30.9127	35.8490	41.5233	48.0386	55.5112
19	1.2081	1.4568	1.7535	2.1068	2.5270	3.0256	3.6165	4.3157	5.1417	6.1159	8.6128	12.0557	16.7765	23.2144	31.9480	37.4043	43.7358	51.0737	59.5679	69.3889
20	1.2202	1.4859	1.8061	2.1911	2.6533	3.2071	3.8697	4.6610	5.6044	6.7275	9.6463	13.7435	19.4608	27.3930	38.3376	45.2593	53.3576	62.8206	73.8641	86.7362
21	1.2324	1.5157	1.8603	2.2788	2.7860	3.3996	4.1406	5.0338	6.1088	7.4002	10.8038	15.6676	22.5745	32.3238	46.0051	54.7637	65.0963	77.2694	91.5915	108.4202
22	1.2447	1.5460	1.9161	2.3699	2.9253	3.6035	4.4304	5.4365	6.6586	8.1403	12.1003	17.8610	26.1864	38.1421	55.2061	66.2641	79.4175	95.0413	113.5735	135.5253
23	1.2572	1.5769	1.9736	2.4647	3.0715	3.8197	4.7405	5.8715	7.2579	8.9543	13.5523	20.3616	30.3762	45.0076	66.2474	80.1795	96.8894	116.9008	140.8312	169.4066
24	1.2697	1.6084	2.0328	2.5633	3.2251	4.0489	5.0724	6.3412	7.9111	9.8497	15.1786	23.2122	35.2364	53.1090	79.4968	97.0172	118.2050	143.7880	174.6306	211.7582
25	1.2824	1.6406	2.0938	2.6658	3.3864	4.2919	5.4274	6.8485	8.6231	10.8347	17.0001	26.4619	40.8742	62.6686	95.3962	117.3909	144.2101	176.8593	216.5420	264.6978

Future Value Interest Factor of an (ordinary) Annuity \$1 per period at i% for n periods, FVIFA(i,n)																				
Period	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	12%	14%	16%	18%	20%	21%	22%	23%	24%	25%
1	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
2	2.0100	2.0200	2.0300	2.0400	2.0500	2.0600	2.0700	2.0800	2.0900	2.1000	2.1200	2.1400	2.1600	2.1800	2.2000	2.2100	2.2200	2.2300	2.2400	2.2500
3	3.0301	3.0604	3.0909	3.1216	3.1525	3.1836	3.2149	3.2464	3.2781	3.3100	3.3744	3.4396	3.5056	3.5724	3.6400	3.6741	3.7084	3.7429	3.7776	3.8125
4	4.0604	4.1216	4.1836	4.2465	4.3101	4.3746	4.4399	4.5061	4.5731	4.6410	4.7793	4.9211	5.0665	5.2154	5.3680	5.4457	5.5242	5.6038	5.6842	5.7656
5	5.1010	5.2040	5.3091	5.4163	5.5256	5.6371	5.7507	5.8666	5.9847	6.1051	6.3528	6.6101	6.8771	7.1542	7.4416	7.5892	7.7396	7.8926	8.0484	8.2070
6	6.1520	6.3081	6.4684	6.6330	6.8019	6.9753	7.1533	7.3359	7.5233	7.7156	8.1152	8.5355	8.9775	9.4420	9.9299	10.1830	10.4423	10.7079	10.9801	11.2588
7	7.2135	7.4343	7.6625	7.8983	8.1420	8.3938	8.6540	8.9228	9.2004	9.4872	10.0890	10.7305	11.4139	12.1415	12.9159	13.3214	13.7396	14.1708	14.6153	15.0735
8	8.2857	8.5830	8.8923	9.2142	9.5491	9.8975	10.2598	10.6366	11.0285	11.4359	12.2997	13.2328	14.2401	15.3270	16.4991	17.1189	17.7623	18.4300	19.1229	19.8419
9	9.3685	9.7546	10.1591	10.5828	11.0266	11.4913	11.9780	12.4876	13.0210	13.5795	14.7757	16.0853	17.5185	19.0859	20.7989	21.7139	22.6700	23.6690	24.7125	25.8023
10	10.4622	10.9497	11.4639	12.0061	12.5779	13.1808	13.8164	14.4866	15.1929	15.9374	17.5487	19.3373	21.3215	23.5213	25.9587	27.2738	28.6574	30.1128	31.6434	33.2529
11	11.5668	12.1687	12.8078	13.4864	14.2068	14.9716	15.7836	16.6455	17.5603	18.5312	20.6546	23.0445	25.7329	28.7551	32.1504	34.0013	35.9620	38.0388	40.2379	42.5661
12	12.6825	13.4121	14.1920	15.0258	15.9171	16.8699	17.8885	18.9771	20.1407	21.3843	24.1331	27.2707	30.8502	34.9311	39.5805	42.1416	44.8737	47.7877	50.8950	54.2077
13	13.8093	14.6803	15.6178	16.6268	17.7130	18.8821	20.1406	21.4953	22.9534	24.5227	28.0291	32.0887	36.7862	42.2187	48.4966	51.9913	55.7459	59.7788	64.1097	68.7596
14	14.9474	15.9739	17.0863	18.2919	19.5986	21.0151	22.5505	24.2149	26.0192	27.9750	32.3926	37.5811	43.6720	50.8180	59.1959	63.9095	69.0100	74.5280	80.4961	86.9495
15	16.0969	17.2934	18.5989	20.0236	21.5786	23.2760	25.1290	27.1521	29.3609	31.7725	37.2797	43.8424	51.6595	60.9653	72.0351	78.3305	85.1922	92.6694	100.815	109.687
16	17.2579	18.6393	20.1569	21.8245	23.6575	25.6725	27.8881	30.3243	33.0034	35.9497	42.7533	50.9804	60.9250	72.9390	87.4421	95.7799	104.935	114.983	126.011	138.109
17	18.4304	20.0121	21.7616	23.6975	25.8404	28.2129	30.8402	33.7502	36.9737	40.5447	48.8837	59.1176	71.6730	87.0680	105.931	116.894	129.020	142.430	157.253	173.636
18	19.6147	21.4123	23.4144	25.6454	28.1324	30.9057	33.9990	37.4502	41.3013	45.5992	55.7497	68.3941	84.1407	103.740	128.117	142.441	158.405	176.188	195.994	218.045
19	20.8109	22.8406	25.1169	27.6712	30.5390	33.7600	37.3790	41.4463	46.0185	51.1591	63.4397	78.9692	98.6032	123.414	154.740	173.354	194.254	217.712	244.033	273.556
20	22.0190	24.2974	26.8704	29.7781	33.0660	36.7856	40.9955	45.7620	51.1601	57.2750	72.0524	91.0249	115.380	146.628	186.688	210.758	237.989	268.785	303.601	342.945
21	23.2392	25.7833	28.6765	31.9692	35.7193	39.9927	44.8652	50.4229	56.7645	64.0025	81.6987	104.768	134.841	174.021	225.026	256.018	291.347	331.606	377.465	429.681
22	24.4716	27.2990	30.5368	34.2480	38.5052	43.3923	49.0057	55.4568	62.8733	71.4027	92.5026	120.436	157.415	206.345	271.031	310.781	356.443	408.875	469.056	538.101
23	25.7163	28.8450	32.4529	36.6179	41.4305	46.9958	53.4361	60.8933	69.5319	79.5430	104.603	138.297	183.601	244.487	326.237	377.045	435.861	503.917	582.630	673.626
24	26.9735	30.4219	34.4265	39.0826	44.5020	50.8156	58.1767	66.7648	76.7898	88.4973	118.155	158.659	213.978	289.494	392.484	457.225	532.750	620.817	723.461	843.033
25	28.2432	32.0303	36.4593	41.6459	47.7271	54.8645	63.2490	73.1059	84.7009	98.3471	133.334	181.871	249.214	342.603	471.981	554.242	650.955	764.605	898.092	1054.8

Present Value Interest Factor of \$1 per period at i% for n periods, PVIF(i,n)																					
Period	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	12%	14%	16%	18%	20%	21%	22%	23%	24%	25%	
1	0.9901	0.9804	0.9709	0.9615	0.9524	0.9434	0.9346	0.9259	0.9174	0.9091	0.8929	0.8772	0.8621	0.8475	0.8333	0.8264	0.8197	0.8130	0.8065	0.8000	
2	0.9803	0.9612	0.9426	0.9246	0.9070	0.8900	0.8734	0.8573	0.8417	0.8264	0.7972	0.7695	0.7432	0.7182	0.6944	0.6830	0.6719	0.6610	0.6504	0.6400	
3	0.9706	0.9423	0.9151	0.8890	0.8638	0.8396	0.8163	0.7938	0.7722	0.7513	0.7118	0.6750	0.6407	0.6086	0.5787	0.5645	0.5507	0.5374	0.5245	0.5120	
4	0.9610	0.9238	0.8885	0.8548	0.8227	0.7921	0.7629	0.7350	0.7084	0.6830	0.6355	0.5921	0.5523	0.5158	0.4823	0.4665	0.4514	0.4369	0.4230	0.4096	
5	0.9515	0.9057	0.8626	0.8219	0.7835	0.7473	0.7130	0.6806	0.6499	0.6209	0.5674	0.5194	0.4761	0.4371	0.4019	0.3855	0.3700	0.3552	0.3411	0.3277	
6	0.9420	0.8880	0.8375	0.7903	0.7462	0.7050	0.6663	0.6302	0.5963	0.5645	0.5066	0.4556	0.4104	0.3704	0.3349	0.3186	0.3033	0.2888	0.2751	0.2621	
7	0.9327	0.8706	0.8131	0.7599	0.7107	0.6651	0.6227	0.5835	0.5470	0.5132	0.4523	0.3996	0.3538	0.3139	0.2791	0.2633	0.2486	0.2348	0.2218	0.2097	
8	0.9235	0.8535	0.7894	0.7307	0.6768	0.6274	0.5820	0.5403	0.5019	0.4665	0.4039	0.3506	0.3050	0.2660	0.2326	0.2176	0.2038	0.1909	0.1789	0.1678	
9	0.9143	0.8368	0.7664	0.7026	0.6446	0.5919	0.5439	0.5002	0.4604	0.4241	0.3606	0.3075	0.2630	0.2255	0.1938	0.1799	0.1670	0.1552	0.1443	0.1342	
10	0.9053	0.8203	0.7441	0.6756	0.6139	0.5584	0.5083	0.4632	0.4224	0.3855	0.3220	0.2697	0.2267	0.1911	0.1615	0.1486	0.1369	0.1262	0.1164	0.1074	
11	0.8963	0.8043	0.7224	0.6496	0.5847	0.5268	0.4751	0.4289	0.3875	0.3505	0.2875	0.2366	0.1954	0.1619	0.1346	0.1228	0.1122	0.1026	0.0938	0.0859	
12	0.8874	0.7885	0.7014	0.6246	0.5568	0.4970	0.4440	0.3971	0.3555	0.3186	0.2567	0.2076	0.1685	0.1372	0.1122	0.1015	0.0920	0.0834	0.0757	0.0687	
13	0.8787	0.7730	0.6810	0.6006	0.5303	0.4688	0.4150	0.3677	0.3262	0.2897	0.2292	0.1821	0.1452	0.1163	0.0935	0.0839	0.0754	0.0678	0.0610	0.0550	
14	0.8700	0.7579	0.6611	0.5775	0.5051	0.4423	0.3878	0.3405	0.2992	0.2633	0.2046	0.1597	0.1252	0.0985	0.0779	0.0693	0.0618	0.0551	0.0492	0.0440	
15	0.8613	0.7430	0.6419	0.5553	0.4810	0.4173	0.3624	0.3152	0.2745	0.2394	0.1827	0.1401	0.1079	0.0835	0.0649	0.0573	0.0507	0.0448	0.0397	0.0352	
16	0.8528	0.7284	0.6232	0.5339	0.4581	0.3936	0.3387	0.2919	0.2519	0.2176	0.1631	0.1229	0.0930	0.0708	0.0541	0.0474	0.0415	0.0364	0.0320	0.0281	
17	0.8444	0.7142	0.6050	0.5134	0.4363	0.3714	0.3166	0.2703	0.2311	0.1978	0.1456	0.1078	0.0802	0.0600	0.0451	0.0391	0.0340	0.0296	0.0258	0.0225	
18	0.8360	0.7002	0.5874	0.4936	0.4155	0.3503	0.2959	0.2502	0.2120	0.1799	0.1300	0.0946	0.0691	0.0508	0.0376	0.0323	0.0279	0.0241	0.0208	0.0180	
19	0.8277	0.6864	0.5703	0.4746	0.3957	0.3305	0.2765	0.2317	0.1945	0.1635	0.1161	0.0829	0.0596	0.0431	0.0313	0.0267	0.0229	0.0196	0.0168	0.0144	
20	0.8195	0.6730	0.5537	0.4564	0.3769	0.3118	0.2584	0.2145	0.1784	0.1486	0.1037	0.0728	0.0514	0.0365	0.0261	0.0221	0.0187	0.0159	0.0135	0.0115	
21	0.8114	0.6598	0.5375	0.4388	0.3589	0.2942	0.2415	0.1987	0.1637	0.1351	0.0926	0.0638	0.0443	0.0309	0.0217	0.0183	0.0154	0.0129	0.0109	0.0092	
22	0.8034	0.6468	0.5219	0.4220	0.3418	0.2775	0.2257	0.1839	0.1502	0.1228	0.0826	0.0560	0.0382	0.0262	0.0181	0.0151	0.0126	0.0105	0.0088	0.0074	
23	0.7954	0.6342	0.5067	0.4057	0.3256	0.2618	0.2109	0.1703	0.1378	0.1117	0.0738	0.0491	0.0329	0.0222	0.0151	0.0125	0.0103	0.0086	0.0071	0.0059	
24	0.7876	0.6217	0.4919	0.3901	0.3101	0.2470	0.1971	0.1577	0.1264	0.1015	0.0659	0.0431	0.0284	0.0188	0.0126	0.0103	0.0085	0.0070	0.0057	0.0047	
25	0.7798	0.6095	0.4776	0.3751	0.2953	0.2330	0.1842	0.1460	0.1160	0.0923	0.0588	0.0378	0.0245	0.0160	0.0105	0.0085	0.0069	0.0057	0.0046	0.0038	

Present Value Interest Factor of an (ordinary) Annuity \$1 per period at i% for n periods, PVIFA(i,n)																					
Period	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	12%	14%	16%	18%	20%	21%	22%	23%	24%	25%	
1	0.9901	0.9804	0.9709	0.9615	0.9524	0.9434	0.9346	0.9259	0.9174	0.9091	0.8929	0.8772	0.8621	0.8475	0.8333	0.8264	0.8197	0.8130	0.8065	0.8000	
2	1.9704	1.9416	1.9135	1.8861	1.8594	1.8334	1.8080	1.7833	1.7591	1.7355	1.6901	1.6467	1.6052	1.5656	1.5278	1.5095	1.4915	1.4740	1.4568	1.4400	
3	2.9410	2.8839	2.8286	2.7751	2.7232	2.6730	2.6243	2.5771	2.5313	2.4869	2.4018	2.3216	2.2459	2.1743	2.1065	2.0739	2.0422	2.0114	1.9813	1.9520	
4	3.9020	3.8077	3.7171	3.6299	3.5460	3.4651	3.3872	3.3121	3.2397	3.1699	3.0373	2.9137	2.7982	2.6901	2.5887	2.5404	2.4936	2.4483	2.4043	2.3616	
5	4.8534	4.7135	4.5797	4.4518	4.3295	4.2124	4.1002	3.9927	3.8897	3.7908	3.6048	3.4331	3.2743	3.1272	2.9906	2.9260	2.8636	2.8035	2.7454	2.6893	
6	5.7955	5.6014	5.4172	5.2421	5.0757	4.9173	4.7665	4.6229	4.4859	4.3553	4.1114	3.8887	3.6847	3.4976	3.3255	3.2446	3.1669	3.0923	3.0205	2.9514	
7	6.7282	6.4720	6.2303	6.0021	5.7864	5.5824	5.3893	5.2064	5.0330	4.8684	4.5638	4.2883	4.0386	3.8115	3.6046	3.5079	3.4155	3.3270	3.2423	3.1611	
8	7.6517	7.3255	7.0197	6.7327	6.4632	6.2098	5.9713	5.7466	5.5348	5.3349	4.9676	4.6389	4.3436	4.0776	3.8372	3.7256	3.6193	3.5179	3.4212	3.3289	
9	8.5660	8.1622	7.7861	7.4353	7.1078	6.8017	6.5152	6.2469	5.9952	5.7590	5.3282	4.9464	4.6065	4.3030	4.0310	3.9054	3.7863	3.6731	3.5655	3.4631	
10	9.4713	8.9826	8.5302	8.1109	7.7217	7.3601	7.0236	6.7101	6.4177	6.1446	5.6502	5.2161	4.8332	4.4941	4.1925	4.0541	3.9232	3.7993	3.6819	3.5705	
11	10.3676	9.7868	9.2526	8.7605	8.3064	7.8869	7.4987	7.1380	6.8052	6.4951	5.9377	5.4527	5.0286	4.6560	4.3271	4.1769	4.0354	3.9018	3.7757	3.6564	
12	11.2551	10.5753	9.9540	9.3851	8.8633	8.3838	7.9427	7.5361	7.1607	6.8137	6.1944	5.6803	5.1971	4.7932	4.4392	4.2784	4.1274	3.9852	3.8514	3.7251	
13	12.1337	11.3484	10.6350	9.9856	9.3936	8.8527	8.3577	7.9038	7.4869	7.1034	6.4235	5.8424	5.3423	4.9095	4.5327	4.3624	4.2028	4.0530	3.9124	3.7801	
14	13.0037	12.1062	11.2961	10.5631	9.8986	9.2950	8.7455	8.2442	7.7862	7.3667	6.6282	6.0021	5.4675	5.0081	4.6106	4.4317	4.2646	4.1082	3.9616	3.8241	
15	13.8651	12.8493	11.9379	11.1184	10.3797	9.7122	9.1079	8.5595	8.0607	7.6061	6.8109	6.1422	5.5755	5.0916	4.6755	4.4890	4.3152	4.1530	4.0013	3.8593	
16	14.7179	13.5777	12.5611	11.6523	10.8378	10.1059	9.4466	8.8514	8.3126	7.8237	6.9740	6.2651	5.6685	5.1624	4.7296	4.5364	4.3567	4.1894	4.0333	3.8874	
17	15.5623	14.2919	13.1661	12.1657	11.2741	10.4773	9.7632	9.1216	8.5436	8.0216	7.1196	6.3729	5.7487	5.2223	4.7746	4.5755	4.3908	4.2190	4.0591	3.9099	
18	16.3983	14.9920	13.7535	12.6593	11.6896	10.8276	10.0591	9.3719	8.7556	8.2014	7.2497	6.4674	5.8178	5.2732	4.8122	4.6079	4.4187	4.2431	4.0799	3.9279	
19	17.2260	15.6785	14.3238	13.1339	12.0853	11.1581	10.3356	9.6036	8.9501	8.3649	7.3658	6.5504	5.8775	5.3162	4.8435	4.6346	4.4415	4.2627	4.0967	3.9424	
20	18.0456	16.3514	14.8775	13.5903	12.4622	11.4699	10.5940	9.8181	9.1285	8.5136	7.4694	6.6231	5.9288	5.3527	4.8696	4.6567	4.4603	4.2786	4.1103	3.9539	
21	18.8570	17.0112	15.4150	14.0292	12.8212	11.7641	10.8355	10.0168	9.2922	8.6487	7.5620	6.6870	5.9731	5.3837	4.8913	4.6750	4.4756	4.2916	4.1212	3.9631	
22	19.6604	17.6580	15.9369	14.4511	13.1630	12.0416	11.0612	10.2007	9.4424	8.7715	7.6446	6.7429	6.0113	5.4099	4.9094	4.6900	4.4882	4.3021	4.1300	3.9705	
23	20.4558	18.2922	16.4436	14.8568	13.4886	12.3034	11.2722	10.3711	9.5802	8.8832	7.7184	6.7921	6.0442	5.4321	4.9245	4.7025	4.4985	4.3106	4.1371	3.9764	
24	21.2434	18.9139	16.9355	15.2470	13.7986	12.5504	11.4693	10.5288	9.7066	8.9847	7.7843	6.8351	6.0726	5.4509	4.9371	4.7128	4.5070	4.3176	4.1428	3.9811	
25	22.0232	19.5235	17.4131	15.6221	14.0939	12.7834	11.6536	10.6748	9.8226	9.0770	7.8431	6.8729	6.0971	5.4669	4.9476	4.7213	4.5139	4.3232	4.1474	3.9849	

1. $CR = \frac{\text{Current assets}}{\text{Current liabilities}}$	15. Payback period = $\frac{\text{Initial outlay}}{\text{Annual cash flow}}$
2. $ATR = \frac{\text{Current assets} - \text{inventory} - \text{prepayment}}{\text{Current liabilities}}$	16. $NPV = \sum_{t=1} \frac{ACF_t}{(1+i)^t} - \text{Initial outlay}$
3. $ITR = \frac{\text{Cost of goods sold}}{\text{Average inventory}}$	17. $IRR = A + \left\{ \frac{a}{a+b} \times (B-A) \right\}$
4. $ACP = \frac{\text{Account receivables}}{\text{Annual credit sales/360 days}}$	18. $HPR = \frac{CI + CG}{PP}$
5. $NCA = \frac{\text{Sales}}{\text{Fixed assets}}$	19. $HPR = (Pt/Pt-1) - 1$
6. $TAT = \frac{\text{Sales}}{\text{Total assets}}$	20. CAPM: $ROR = R_f + \beta(R_m - R_f)$
7. $DR = \frac{\text{Total debt}}{\text{Total assets}}$	21. $E_r = \sum (P \times R)$
8. $TIE = \frac{\text{Earnings before interest and tax (EBIT)}}{\text{Interest expenses}}$	22. $\hat{E}_p = w_1\hat{E}_1 + w_2\hat{E}_2 + \dots + w_n\hat{E}_n$
9. $DTE = \frac{\text{Total debt}}{\text{Total equity}}$	23. $A_r = \sum \frac{R}{N}$
10. $GPM = \frac{\text{Gross profit}}{\text{Sales}}$	24. $\sigma = \sqrt{\frac{\sum_{i=1}^n (R_i - E_r)^2 P(R_i)}{n-1}}$
11. $NPM = \frac{\text{Net income available to common stockholders}}{\text{Sales}}$	25. $K_d = k_d(1-T)$
12. $OPM = \frac{\text{Earnings before interest and tax}}{\text{Sales}}$	26. $K_p = D / (MV - \text{other costs})$
13. $ROA = \frac{\text{Net income available to common stockholders}}{\text{Total assets}}$	27. $K_e = (D_1 / MV) + g$
14. $ROE = \frac{\text{Net income available to common stockholders}}{\text{Common equity}}$	28. $K_{ne} = (D_1 / MV - \text{other cost}) + g$

