CONFIDENTIAL

KOLEJ POLY-TECH MARA

FINAL EXAMINATION

COURSE	**:**	**FINANCIAL MANAGEMENT**
COURSE CODE	**:**	**PFN1263**
DURATION	**:**	**2 HOURS**

INSTRUCTIONS TO CANDIDATES :

1. This question paper consists of **TWO (2)** parts : PART A (05 questions)
   : PART B (03 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 - PVIF and PVIFA tables
   iv. Appendix 2 - The Formula List
4. Do not bring any material into the examination hall unless permission is given by the invigilator.
5. Please write your answer using a ball-point pen**.**

MYKAD NO : ______________________

ID. NO. : ______________________

LECTURER : ______________________

SECTION : ______________________

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

The question paper consists of 10 printed pages

PART A: MULTIPLE CHOICE QUESTIONS
Choose the best answer.

1. **(1 point)**

"It measures how efficiently a firm uses its materials and labour to produce and sell products profitably".

Table 1

Choose the best ratio that describes the statement in Table 1 above.

A. Return on asset
B. Return on equity
C. Gross profit margin
D. Net profit margin

2. **(1 point)**

Which of the followings are limitations of financial ratio?

i. Comparison with industry averages is difficult for conglomerates.
ii. Seasonal factors can distort ratios.
iii. Inflation distorts the firm's financial statements.
iv. Different operating and accounting practices make comparison difficult.

A. i, ii, and iii
B. i, ii and iv
C. ii, iii and iv
D. All the above.

3. **(1 point)**

Which of the followings is a reason of having a longer average collection period?

A. The company thoroughly dispatches notifications and actively pursues overdue payments.
B. The company tightens its credit policy and regularly sends reminders or follows up for late payment.
C. The company actively sends reminders for late payment.
D. The company lacks a credit policy and does not send reminders or follow up for late payment.

4. **(1 point)**

"Debt ratio for an AA company for the year 2023 is 60.27%."

Table 2

Based on the statement on the table above, conclude some best ways AA company to reduce its debt ratio.

i. The business should take out a bank loan.
ii. The company can lease assets.
iii. The company can increase the sales.
iv. The company can increase in overhead expenses.

A. i and ii
B. i and iv
C. ii and iii
D. iii and iv

5. **(1 point)**

Choose the most accurate statement that defines the operating profit margin.

A. To show how much revenue remains after all expenses related to operating costs or variables have been covered.
B. To measure a firm's ability to meet its short-term financial obligations.
C. To indicate how well the firms utilize its assets to make profits for firm and value for shareholders.
D. To analyse how efficiently a firm can manage its asset to produce profit during a period.

PART B: STRUCTURED QUESTIONS
Answer **ALL** questions.

1. (12 points)

Don Men Company
Statement of Comprehensive Income for the Year Ended 31 December 2023

	RM	RM
Sales revenues (all credit)		75,200
Less: Cost of goods sold		(41,500)
Gross profits		33,700
Less: Expenses		
General and administrative expenses	11,100	
Depreciation expenses	3,900	
Interest expenses	4,500	19,500
Profit before taxes		14,200
Less: Taxes (15%)		(2,130)
Net profit after taxes		12070

Don Men Company
Statement of Financial Position as at 31 December 2023

	RM	RM
Plant and equipment	123,000	
Land	89,000	
Less: Accumulated depreciation	(9,300)	
Total non-current assets		202,700
Inventories	9,300	
Account receivables	7,100	
Cash	12,400	
Total current assets		28,800
Total assets		231,500
Account payable		7,600
Short term loan		11,100
Total current liabilities		18,700
Long term debt		101,400
		120,100
Common stock equity	81,300	
Retained earnings	30,100	
		111,400
Total liabilities and equity		231,500

Note: Assume a 360-day year.

The company ratio for the year 2022 are as follows:

Current ratio	1.30 times	Times interest earned	3 times
Quick ratio	0.80 times	Operating profit margin	15.00 %
Inventory turnover	1.60 times	Net profit margin	4.0 times
Average collection period	32 days	Return on equity	7.30 %
Total asset turnover	0.20 times	Debt ratio	40%

Table 3

Required:

a. Calculate the above ratio for Don Men Company for the year ending 31st December 2023. (10 points)
b. Based on efficiency ratios which year is company performance better and why? (2 points)

2. (20 points)

a. Rank the following stocks based on their level of risk from higher to lower risk. (5 points)

Stock	**Coefficient of variation**
Kronos	0.267
Tanos	0.181
Hanos	0.265
Vanos	0.334
Sanos	0.541

Table 4

b. The following table shows the investment of Melur Berhad over this five-year period.

Year	**Return (%)**
1	15
2	17
3	8
4	-14
5	4

Table 5

Calculate:

i. Average return. (3 points)

ii. Standard deviation. (6 points)

iii. Coefficient of variation (1 point)

c. Based on the information given, calculate the standard deviation for Project Megah Berhad. (5 points)

Probabilities	**Return (%)**	**Expected return %**
0.2	15	14.5
0.3	17	
0.4	16	

Table 6

3. (**23 points)**

a. Bashir Company is considering two mutually exclusive investments. The project expected cash flows are as follows:

	Project Y (RM)	**Project Z (RM)**
Initial Outlay	3,000	4,050
Year 1	870	1,340
Year 2	1,930	1,340
Year 3	1,000	1,340
Year 4	6,000	1,340
Year 5	6,000	1,340
Year 6	1,800	1,340

Table 7

The company's cost of capital is 10 percent.

Required:

i. Calculate:

a. Payback Period for each project. (3 points)

b. Net Present Value (NPV) for each project. (9 points)

c. Internal Rate of Return (IRR) for **Project Z** only. (4 points)

ii. Which project should be selected and state your reasons? (3 points)

b. Sri Suria Corporation requires an initial investment of RM200,000 and the annual after-tax cash inflows for 4 years are RM8,000, RM9,000, RM115,000 and RM100,000 respectively. Calculate the payback period for the company. (4 points)

END OF QUESTION PAPER

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

APPENDIX 1 (1)

Present value interest factor of an (ordinary) annuity of $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	10.368	9.7868	9.2526	8.7605	8.3064	7.8869	7.4987	7.1390	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	11.255	10.575	9.9540	9.3851	8.8633	8.3838	7.9427	7.5361	7.1607	6.8137	6.1944	5.6603	5.1971	4.7932	4.4392	4.2784	4.1274	3.9852	3.8514	3.7251
13	12.134	11.348	10.635	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	13.004	12.106	11.296	10.563	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	13.865	12.849	11.938	11.118	10.380	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	14.718	13.578	12.561	11.652	10.838	10.106	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	15.562	14.292	13.166	12.166	11.274	10.477	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	16.398	14.992	13.754	12.659	11.690	10.828	10.059	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	17.226	15.678	14.324	13.134	12.085	11.158	10.336	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	18.046	16.351	14.877	13.590	12.462	11.470	10.594	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	18.857	17.011	15.415	14.029	12.821	11.764	10.836	10.017	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	19.660	17.658	15.937	14.451	13.163	12.042	11.061	10.201	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	20.456	18.292	16.444	14.857	13.489	12.303	11.272	10.371	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	21.243	18.914	16.936	15.247	13.799	12.550	11.469	10.529	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	22.023	19.523	17.413	15.622	14.094	12.783	11.654	10.675	9.8226	9.0770	7.8431	6.8729	6.0971	5.4669	4.9476	4.7213	4.5139	4.3232	4.1474	3.9849

APPENDIX 1 (2)

FORMULA LIST

$SD = \sqrt{\sum P (R - ER)^2}$

$SD = \sqrt{[\sum (R - AR)^2 / n-1]}$

Pp = Initial Outlay / Constant annual cash flow

$Pp = \text{Year before recovery} + \left[\dfrac{\text{Unrecovered cost at beginning of year}}{\text{Cash flow during that year}} \right]$

NPV = Total PV – Initial Outlay

$IRR = a\% + [(x - y) / (x - z)] \times (b\% - a\%)$

$PI = 1 + (NPV / \text{Initial Outlay})$

APPENDIX 2