

UNIVERSITI KUALA LUMPUR BUSINESS SCHOOL

FINAL EXAMINATION FEBRUARY 2024 SEMESTER

COURSE CODE

: EBP00404

COURSE NAME

: INTRODUCTION TO FINANCE

PROGRAMME NAME

: FOUNDATION IN BUSINESS

DATE

: 26 JUNE 2024

TIME

: 09.00 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 TWO (2) sections; Section A and Section B.
- 4. Answer ALL questions in Section A and Section B.
- 5. Please write your answers on the OMR answer script and answer booklet provided.
- 6. All questions must be answered in English (any other language is not allowed).
- 7. This guestion paper must not be removed from the examination hall.
- 8. Present and future values tables and formulas has been appended for your reference.

THERE ARE THIRTEEN (13) PAGES OF QUESTIONS, EXCLUDING THIS PAGE.

SECTION A (Total: 40 Marks)

INSTRUCTION: Answer ALL questions.

Please use the objective answer sheet provided.

1. Helena Furnishings wants to reduce its cash conversion cycle. Which of the following actions should it take?

- A. Increases average inventory without increasing sales.
- B. Take steps to reduce the DSO.
- C. Start paying its bills sooner, which would reduce the average accounts payable but not affect sales.
- D. Sell common stock to retire long-term bonds.
- 2. Which of the following is NOT a capital component when calculating the weighted average cost of capital (WACC) for use in capital budgeting?
 - A. Accounts payable.
 - B. Retained earnings.
 - C. Common stock.
 - D. Preferred stock.
- Which of the following statements is CORRECT?
 - A. The discounted payback method recognizes all cash flows over a project's life, and it also adjusts these cash flows to account for the time value of money.
 - B. The regular payback method was, years ago, widely used, but virtually no companies even calculate the payback today.
 - C. The regular payback is useful as an indicator of a project's liquidity because it gives managers an idea of how long it will take to recover the funds invested in a project.
 - D. The regular payback does not consider cash flows beyond the payback year, but the discounted payback overcomes this defect.
- 4. Which of the following assumptions is embodied in the AFN formula?
 - A. Accounts payable and accruals are tied directly to sales.
 - B. Common stock and long-term debt are tied directly to sales.
 - C. Fixed assets, but not current assets, are tied directly to sales.
 - D. Last year's total assets were not optimal for last year's sales.

5. Your bank account pays a 6% nominal rate of interest. The interest is compounded quarterly. Which of the following statements is CORRECT?

- A. The periodic rate of interest is 1.5% and the effective rate of interest is 3%.
- B. The periodic rate of interest is 6% and the effective rate of interest is greater than 6%.
- C. The periodic rate of interest is 1.5% and the effective rate of interest is greater than 6%.
- D. The periodic rate of interest is 3% and the effective rate of interest is 6%.
- 6. Which of the following is NOT one of the steps taken in the financial planning process?
 - A. The entire financial plan is reexamined, assumptions are reviewed, and the management team considers how additional changes in operations might improve results.
 - B. Projected ratios are calculated and analyzed.
 - C. Develop a set of projected financial statements.
 - D. Consult with key competitors about the optimal set of prices to charge, i.e., the prices that will maximize profits for our firm and its competitors.
- 7. Why do firms need liquidity?
 - I. to meet compensating balance requirements
 - II. for speculative purposes
 - III. to conduct daily business activities
 - IV. as a precautionary financial reserve
 - A. III and IV only
 - B. I, III, and IV only
 - C. II, III, and IV only
 - D. I, II, III, and IV
- 8. The basic factors to be evaluated in the credit evaluation process, the five Cs of credit, are:
 - A. character, capacity, control, cessation, and collateral.
 - B. character, capacity, capital, collateral, and conditions.
 - C. capital, collateral, control, character, and capacity.
 - D. conditions, character, capital, control, and capacity.

9. Mimi has decided to invest RM100 in a savings account that earns 12% interest. She invested for two years. How much would she earn at the end of year 2?

A. RM125.44

C. RM135.76

B. RM138.90

- D. RM128.86
- 10. Which of the following statements is CORRECT?
 - A. The internal rate of return method (IRR) is generally regarded by academics as being the best single method for evaluating capital budgeting projects.
 - B. The payback method is generally regarded by academics as being the best single method for evaluating capital budgeting projects.
 - C. The discounted payback method is generally regarded by academics as being the best single method for evaluating capital budgeting projects.
 - D. The net present value method (NPV) is generally regarded by academics as being the best single method for evaluating capital budgeting projects.
- 11. Which one of the following is a system for managing demand-dependent inventories that minimizes the inventory holdings of a firm?
 - A. just-in-time inventory
 - B. net working capital planning
 - C. turnover planning
 - D. inventory scoring
- 12. When working with the CAPM, which of the following factors can be determined with the most precision?
 - A. The beta coefficient of "the market," which is the same as the beta of an average stock.
 - B. The market risk premium (RPM).
 - C. The beta coefficient, bi, of a relatively safe stock.
 - D. The most appropriate risk-free rate, rrp.
- 13. Which of the following is NOT commonly regarded as being a credit policy variable?
 - A. Credit period.
 - B. Collection policy.
 - C. Credit standards.
 - D. Payment's deferral period.

14. A company expects sales to increase during the coming year, and it is using the AFN equation to forecast the additional capital that it must raise. Which of the following conditions would cause the AFN to increase?

- A. The company previously thought its fixed assets were being operated at full capacity, but now it learns that it actually has excess capacity.
- B. The company increases its dividend payout ratio.
- C. The company's profit margin increases.
- D. The company decides to stop taking discounts on purchased materials.
- 15. Which of the following statements is CORRECT?
 - A. One defect of the IRR method is that it does not take account of the time value of money.
 - B. One defect of the IRR method is that it does not take account of the cost of capital.
 - C. One defect of the IRR method is that it values a dollar received today the same as a dollar that will not be received until sometime in the future.
 - D. One defect of the IRR method is that it assumes that the cash flows to be received from a project can be reinvested at the IRR itself, and that assumption is often not valid.
- 16. Which of the following statements is CORRECT?
 - A. A time line is not meaningful unless all cash flows occur annually.
 - B. Time lines are useful for visualizing complex problems prior to doing actual calculations.
 - C. Time lines cannot be constructed in situations where some of the cash flows occur annually but others occur quarterly.
 - D. Time lines cannot be constructed for annuities where the payments occur at the beginning of the periods.
- The statements listed below are NOT TRUE except
 - A. To maximize shareholders wealth is to maximize the market value of the firms' total debt.
 - B. To maximize shareholders' wealth, is to maximize the dividend per share
 - C. To maximize shareholders' wealth is to maximize the net cash inflows.
 - D. To maximize the shareholders' wealth, is more maximize the market value of the firm's common stock.

18. Which of the following is the motive that prompts a company with an unpredictable cash flow to hold a larger minimum cash balance because of things that might happen due to this uncertainty?

A. Transaction

C. Speculative

B. Precautionary

D. Common sense

- 19. The financial manager is concerned with
 - A. Striking a balance between holding too much and too little cash
 - B. Maintaining high levels of profitability
 - C. Minimizing the chance of insolvency
 - D. All the above
- 20. The management of inventory is important because
 - A. Carrying excessive inventory can result in a loss of demand
 - B. Carrying too much inventory can result in a loss of efficiency and profitability
 - C. Decisions related to inventory are risky since inventory is acquired in anticipation of sales
 - D. All the above
- 21. _____ is a computerized system that breaks down the bill of materials for each product in order to determine what to order, when to order and what priorities to assign to ordering.
 - A. The EOQ model

C. The ABC system

B. The JIT system

D. The MRP system

- 22. Maximizing the market price per share is preferred than maximizing earnings per share because
 - A. Earnings per share ignores the time value of money; market price per share does not.
 - B. Market price per share does not consider risk; earnings per share takes risk into consideration.
 - C. Earnings per share takes dividends into consideration; market price per share does not.
 - D. The shareholders can get new information on price per share every business day, but information on new earnings per share is available only once a year.

23.	A goal	that a	company	should	strive	for is
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- A. Maximization of sales revenues
- B. Maximization of employee's' benefit
- C. Maximization of current earnings
- D. Maximization of shareholders' wealth
- 24. The true statement regarding maximization of profit is
 - A. Maximization of profit is not an adequate goal.
 - B. Maximization of profit is the true goal of a firm.
 - C. Maximization of profit considers uncertainty.
 - Maximization of profit takes into consideration the timing of cash flows.
- 25. How much are you willing to invest annually in order to have RM5,000 accumulated in four years considering the interest rate is 8%. Given:

FVIF 8%, 4 years = 1.3605

FVIFA 8%, 4 years = 4.5061

PVIF 8%, 4 years = 0.7350

PVIFA 8%, 4 years = 3.3121

- A. RM3,675.12
- B. RM1,109.61
- C. RM6,802.72
- D. RM1,509.62
- 26. The stand-alone principle advocates that project analysis should focus on _____ costs
 - A. total
- C. fixed
- B. variable
- D. incremental
- 27. The following statements about NPV are true except
 - A. It does not allow for projects to be ranked
 - B. It has an inadequate reinvestment assumption
 - C. It is likely that there will be more than one NPV for a project
 - D. All the above

28.	Wha	t is the restocking quantity th	at minim	nizes a	firm's total inventory cost called?
	А. В.	Short order quantity Refill unit quantity		C. D.	Economic order quantity Minimum stock level
29.	A for	recast of cash receipts and di	isbursen	nents fo	or the next planning period is called a:
	A.	Pro forma income stateme	ent.	C.	Cash budget.
	В.	Statement of cash flows.		D.	Receivables analysis.
30.		-	limitatio	n that i	might be encountered in interpreting
	finar	ncial ratios?			
	A.	Difficulty in identifying an	appropri	ate indu	ustry category
	В.	Differences in accounting	practice	s amon	g firms
	C.	Seasonality			
	D.	Differences in financial ye	ar end a	mong o	companies
31.	A co	ompany is considering a tre	end ana	lysis ov	ver the years and discovers that its
	inve	ntory turnover ratios have be	en incre	asing. T	This may be due to
	A.	A decrease in sales			
	В.	A decease in COGS			
	C.	A decrease in inventory p	urchase		
	D.	An increase in inventory p	urchase)	
32.	An ir	nventory turnover ratio of 3.5	of a com	npany c	ompared to an industry average of 4.5
	indic	ates that			
	A.	The firm has sales that are	e lower t	than the	e industry average
	В.	The firm is investing more	into inv	entory i	in terms of per dollar of sales than the
		industry average			
	C.	The firm is more efficient i	n selling	j its god	od.
	D.	The firm keeps lesser inv	entories	causir	ng their average to be lower than the
		industry's			
33.	if the	e total assets turnover increa	ses, the	ROE	
	A.	Increase	C.	Rem	ain unchanged
	B.	Decrease	D.	Chai	nges indeterminable

34. Assume that a firm has determined that its trade debtors' balance is getting too large relative to its sales volume. Which of the following courses of action would be best for it to take in order to improve the collection of accounts receivable in future period.

- A. Allow customers a longer time to pay for the products.
- B. Improve product quality control requirements
- C. Sell more products on credit
- D. Raise the firm's credit standard
- 35. Debt ratios tend to deal with matters concerning
 - A. A firm's ability to pay short-term liabilities
 - B. The speed with which various accounts are converted into cash inflows or outflows
 - C. The use of other people's money to finance assets owned by the stockholders
 - D. The amount of retained earnings left at the end of the period in question
- 36. Megah Holdings has an annual interest expense of RM10,000 and pays income tax equal to 28% of earnings before tax. Megah Holdings' times interest earn is 5. How much is the company net income?
 - A. RM48,000
 - B. RM28,000
 - C. RM63,000
 - D. RM28,800
- 37. Which of the following statements is CORRECT, other things held constant?
 - A. If companies have fewer good investment opportunities, interest rates are likely to increase.
 - B. If individuals increase their savings rate, interest rates are likely to increase.
 - C. If expected inflation increases, interest rates are likely to increase.
 - D. Interest rates on all debt securities tend to rise during recessions because recessions increase the possibility of bankruptcy, hence the riskiness of all debt securities.
- 38. Stock Excel Bhd has beta of 2, expected market return is 17% and risk-free rate is 9%. What is the required rate of return?
 - A. 25%

C. 16%

B. 19%

D. Cannot be determined

- 39. Which of the following statements is CORRECT?
 - A. Although short-term interest rates have historically averaged less than long-term rates, the heavy use of short-term debt is considered to be an aggressive strategy because of the inherent risks associated with using short-term financing.
 - B. If a company follows a policy of "matching maturities," this means that it matches its use of common stock with its use of long-term debt as opposed to short-term debt.
 - C. Net working capital is defined as current assets minus the sum of payables and accruals, and any decrease in the current ratio automatically indicates that net working capital has decreased.
 - D. If a company follows a policy of "matching maturities," this means that it matches its use of short-term debt with its use of long-term debt.
- 40. The transactions that affect the acid-test ratio is
 - A. A building is purchased and financed by a non-current loan
 - B. Inventories are sold on a credit basis
 - C. Debtors pay their accounts by cash
 - D. None of the above

SECTION B (Total: 60 marks)

INSTRUCTION: Answer ALL questions.
Please use the answer booklet provided.

QUESTION 1

(a) Differentiate between line of credit and transaction loan?

(4 marks)

(b) A production company, Lisa Creative Studios, is having financial problem and wishes to borrow RM 500,000 for 5 months. The below alternatives have been identified to overcome their problems:

Alternative 1:

A loan from Pertiwi Bank has an interest rate of 15%. The bank requires 5% of compensating balance. Interest needs to be paid in advance.

Alternative 2:

Perwira Bank offers a loan with an interest of 12%. A compensating balance of 10 % is required. The company already have RM 20 000 in their current account with the bank.

Required:

Calculate the effective annual cost of financing for these alternatives. Which alternative should the company take if they are very cost conscious?

(11 marks)

QUESTION 2

Fitch Berhad is in the process of choosing the better of two equal-risk, mutually exclusive capital expenditure projects, M and N. The relevant cash flows for each projects are shown in the following table. The company's cost of capital is 9%.

	Project M	Project N
	(RM)	(RM)
Initial investment (CF ₀)	-40,000	-40,000
Year (t)	Cash in	flows (CF _t)
1	14,000	23,000
2	14,000	12,000
3	14,000	10,000
. 4	14,000	9,000

Required:

a) Calculate each project's payback period

(3 marks)

b) Calculate the net present value (NPV) for each project

(10 marks)

c) From the findings (a) and (b) above, which project should the company choose? State your reason.

(2 marks)

QUESTION 3

(a) Ashira planned to take out a student loan to pay for her final year of college. The loan amount is RM30,000.00. What are the equal end-of-year payments required to fully amortise the loan amount if the interest rate is 6% over five years?
(Prepare loan ammortization schedule for five years.)

(9 marks)

(b) The Star Equipment Company estimates its carrying cost at 15% of cost per unit and its ordering cost at RM100 per order. The estimated monthly requirement is 5,250 units at a price of RM140 per unit.

Calculate:

i. Economic order quantity (EOQ)

(4 marks)

ii. Number of orders to place in a year

(2 marks)

QUESTION 4

(a) State 4 factors affecting cost of capital?

(4 marks)

(b) Megah Holding's capital structure is as per below:

Source of financing	Amount (RM)	Capital Structure (%)
Bonds	600,000	30
Preferred Stock	200,000	10
Common Stock	1,200,000	60
Total	2,000,000	100

An investment opportunity of RM 500,000 with an expected internal rate of return (IRR) of 15% has been discussed by the management.

The current cost of the firm's capital or the required rate of return of the firm for each source of financing is stated below:

Cost of debt capital	12%
Cost of preferred stock	15%
Cost of common stock	13%

Required:

i. As the firm's financial manager, advise the management team on whether the firm should proceed with the investment.

(9 marks)

ii. The firm is also considering the below capital budgeting projects to invest. The IRR and the projects costs are given below:

Project	IRR (%)	Cost (RM)
1	15	700,000
2	13	590,000
3	10	850,000

Which project should Megah Holding accept?

(2 marks)

END OF EXAMINATION PAPER

Table of Formulas

- 1) Future value = present value $(1 + r)^n$
- 2) Present value = future value $\left[\frac{1}{(1+r)^n}\right]$
- 3) Present value ordinary annuity = $\left[\frac{PMT}{r}\right] \times \left[1 \frac{1}{(1+r)^n}\right]$
- 4) Future value ordinary annuity = $PMT[\frac{(1+r)^n-1}{r}]$
- 5) Present value annuity due = $\left[\frac{PMT}{r}\right] \times \left[1 \frac{1}{(1+r)^n}\right] (1+r)$
- 6) Future value annuity due = PMT[$\frac{(1+r)^{n}-1}{r}$] (1 + r)
- 7) Present value of a perpetuity = PMT $\times \frac{1}{r}$
- 8) AAI = $\frac{Avg\ Inventory}{Annual\ COGS}$ X No. of days in a year
- 9) ACP = $\frac{Avg\ Acc\ Receivables}{Annual\ Sales}$ X No. of days in a year
- 10) APP = $\frac{Avg\ Acc\ Payables}{Annual\ COGS}$ X No. of days in a year

11) EOQ =
$$\sqrt{\frac{2SO}{C}}$$

- 12) $R_s = r_{RF} + (r_{M-}r_{RF}) b_{Firm}$
- 13) IRR = $r_a + \frac{NPV_a}{NPV_a NPV_b} (r_b r_a)$
- 14) $R_d = I + FV N_d$ n $N_d + FV$
- 15) $R_s = (D_1/P_0) + g$
- 16) $R_n = (D_1 / N_n) + g$
- 17) WACC = $(w_i \times r_i) + (W_p \times r_p) + (W_s \times r_{s \text{ or } n})$

Future Value Interest Factors

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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	112,455	146.192	190.050		247.065	321,184	417,539	542.801	705.641		*	*	*	*	*
25%	1,2500	1.5625	1.9531	2,4414	3.0518		3.8147	4,7684	5,9605	7,4506	9.3132		11.642	14,552	18.190	22.737	28.422		35,527	44.409	65.511	69,389	86.736		108,420	135.525	169.407	211.758	264.698		807.794	*	*	*	*
24%	1.2400	1,5376	1,9066	2.3642	2.9316		3.6352	4.5077	5.5895	6.9310	8,5944		10.657	13.216	16.386	20,319	25.196		31,243	38,741	48.039	59.568	73.864		94.592	113,574	140.831	174,631	246.542		634.820	*	*	•	
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	95,396		237.376	590,668	708.802	*	*
%91	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	180.314	209.164	378,721	Į.
15%	1.1500	1.3225	1,5209	1.7490	2.0114		2.3131	2.6600	3.0590	3.5179	4.0456		4.6524	5.3503	6,1528	7.0757	8,1371		9,3576	10.761	12.375	14.232	16.367		18.822	21.645	24.891	28.625	32.919		66.212	133,176	153.152	267.864	
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	10.575	12.056	13,743		15.668	17.861	20.362	23.212	26.462		50.950	98.100	111.834	188,884	700.233
*3%	1.1300	1,2769	1.4429	1.6305	1.8424		2.0820	2,3526	2,6584	3,0040	3,3946		3.8359	4.3345	4.8980	5,5348	6,2543		7.0673	7.9861	9.0243	10.197	11.523		13.021	14.714	16,627	18,788	24.231		39.116	72.069	81,437	132.782	450,736.
*25	1.1200	1.2544	1.4049	1.5735	1.7623		1,9738	2,2107	2.4760	2.7734	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	59.136	93.051	289.002
44%	1,1100	1.2321	1.3676	1.5181	1.6851		1.8704	2,0762	2.3045	2,5580	2.8394		3.1518	3,4985	3,8833	4.3104	4,7846		5,3109	5.8951	6.5436	7.2633	8,0623		8.9492	9.8336	11.026	12.239	13.585		22.892	38,575	42.818	65,001	184,565
70,7	1.1000	1.2100	1,3310	1.4641	1.6105		4.7746	1,9487	2,1436	2,3579	2.5937	6	2.8531	3.4384	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	30.913	45.259	117.391
%6	1.0900	1.1881	1,2950	1,4116	1,5386		1.6774	4.8280	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	7.9411	8.6231		13.268	20.414	22.251	31,409	74,358
	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	2.9372	3.1722		3,4259	3.7000	3,9960	4.3157	4.6610		5.0338	5,4365	5.8715	6.3412	6.8485		10.063	14,785	15.968	24.726	46.902
***	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	11.424	14.974	29,457
788	1.0600	1.1236	1.1910	1,2625	1.3382		1,4185	1.5036	1.5938	1,6895	1.7908		1,8983	2,0122	2.4329	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	8.1473	10,286	18.420
762	6	1.1025	1,1576	1.2155	1,2763		1.3401	1.407.1	1,4775	1.5513	1,6289		1.7103	1.7959	1,8856	1.9799	2.0789		2,1829	2.2920	2,4066	2.5270	2.6533		2.7860	2.9253	3.0715	3,2251	3,3864		4.3219	5.5160	5,7918	7.0400	11.467
***	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	4.7347	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	4.1039	4,8010	7,1067
72.2	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	2.8983	3,2620	4.3839
2%	1.0200	1.0404	1,0612	1.0824	1.1041		1.1262	1.1487	1,1717	1.1951	1.2190		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	2,0399	2.2080	2,6916
3	4.0100	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	1.4308	1,4889	1.6446
Decion		~	6	*	5		B	2	63	ō	9		¥	12	-13	\$ }	ıo.		9	2,	\$	-13	20	\$	28	22	23	24	25		30	35	38	40	05

Future Value Interest Factors Annuity

land.		*******	de de la composición dela composición de la composición de la composición de la composición dela composición de la composición dela composición dela composición de la composición de la composición dela c	anić Ki	and de	eixxeo	ciaco T	o čes	1	*****	ZI SPALS	iotheric	ide:xxx	inc486	essa) T	1	in exten	sickeri I	itanesi t	ninistis.	6623	بخنجم	eciana 	ocada T	30000	e elektric	\$400)-41	20,00		· T	ion con	we.c	1	1,50000	_	
30%	1,3000	2,3000	3.9900	6.1870	9.0431		12,756	17.583	23.858	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%	1,2500	2,2500	3.8125	5.7656	8,2070		11,259	15.073	19.842	25.802	33.253		42,566	54.208	68.760	86.949	109,687		138.109	173,636	218.045	273,556	342.945		429.681	538.101	673.626	843.033	×		*	*	*	*	*	
24%	1.2400	2,2400	3,7776	5.6842	8.0484		10,980	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	898.092		*	*	*	*		
20%	1,2000	2,2000	3,6400	5.3680	7,4416	1	9,9299	12,916	16.499	20.799	25.959		32.150	39.584	48.497	59.196	72.035		87.442	105.931	128.117	154,740	186.688		225.026	271.031	326.237	392,484	471.981		*	*	*	•	×	_
%9 1	1,1600	2,1600	3,5056	5.0665	6.8774	\dashv	8.9775	11,414	14.240	17.519	21.321	-	25.733	30.850	36.786	43.672	51.660		60.925	71.673	84,141	98.603	115,380		-	_	-	213.978	249.214		530,312	*	*	•		K
15%	1.1500	2,1500	3.4725	4.9934	6.7424		8,7537	11,067	13.727	16.786	20.304	\dashv	24,349	29.002	34,352	40,505	47.580		55.717	65.075	75.836	88.212	102,444		-	┯┼	159.276	184.168	212.793		434,745	884.170	*			
14%	1,1400 1	2.1400 2	3,4396	4.9241 4	6.6101 E	-	8.5355	10.730	13.233	16.085	19,337		23.045	27.271	32.089	37.581	43.842		50.980	59.118	68.394	78.969	91.025 1		104.768 1		138.297 1	158.659 1	181.871 2		356.787	693.573 8	791.673	*	*	
13%	1,7300 1	2,1300 2	3.4069 3	4.8498 4	6,4803 6		8.3227 8	10.405 1	12,757 1	15.416 1	18.420 1		21.814 2	25.650 2	29,985 3	34.883 3	40,417 4		46.672 5	53.739 5	64.725 6	70,749 7	80.947		92,470 4	-	120,205 1	136,831	155.620 1		293.199 3	546,681 6	618,749 7		*	
12%	1,1200 .1,	2.1200 2.	3.3744 3.	4.7793 4.	6.3528 6.		8,1152 8.	10.689 1(12.300 12	14.776 18	17.549 1		20.655 2	24.133 2	28.029 2	32,393 3	37,280 4		42.753 4		55.750 6	63,440 7	72.052 8		81.699 9		104,603 12	118.155 13	133,334 16	``	241.333 28	431.663 54	484.463 61	767.091		
11% 1	1,1100 1,1	2.1100 2.	3,3421 3.	4.7097 4.	6.2278 6.		7,9129 8.	9,7833 10		14.164 14	16.722 13		19.561 20	22.713 24	26.212 28	30.095 32	34,405 37		39.190 42	44.501 48	-	56.939 63	-		72,265 81		91.148 10	102.174 11	114.413 13		199.021 24	341.590 43	380.164 48	581,826 76	*	
10%	1,1000 1.1		3,3100 3,3	4 6410 4.7	6.1051 6.2		7.7156 7.9	9,4872 9,1	-		15,937 16	ζ.	18,531 19	21.384 22	-		31.772 34		35.950 39	_	-	51,159 58	57.275 64		64.002 72	71,403 81	79.543 91	88,497 10.	98,347 11		164,494 19	271.024 34	299.127 38	-		,
-	-	╢		-			-	H			_			-	-	26.019 27.	7	-	33,003 35.	-	-	46.018 51.	51,160 57,		56.765 64.	62.873 71.	69.532 79.	76.790 88.	84.701 98.	-	136.308 164	215,711 274	236.125 299	-	815.084	
%6	00 1.0900	00 2.0900	64 3.2781	61 4.5731	66 5.9847	4	59 7.5233	82	-	-	87 15.193		45 47.560	77 20.141	-	├-	52 29,361	╀	124 33,1	├	┼	-	┢	_	123 56.	57 62.	393 69.	.65 76.	_		283 136	317 245	102 236		\vdash	
8%	1,08	2.08	3.24	4.50	5.86		7.33	8.92	10.6	12.4	14.4		16.6	18.977	21.4	24.2	-		30.3	33.7	37.4	43.4	2		50.4	55.	60.1	.99	25		5	472	187	259	573	
× .		+	3,2149	3 4.4399	-		3 7.1533	╀	╀	├	-		2 15,784	17.888	├-	-	┼	+-	3 27.888	╀	┼	╄	┼	┢	3 44,865	2 49.006	6 53.436	6 58.177	├	├	8 94.461	-		ļ	-	
%9	_			4.3746	-	├	6.9753	-	╂━	-	-		14,972	16.870	-	╀	╄	-	25.673	╁╌	┼	┼-	╫	╁┈	39,993	-	46.996	50.816	╁	╁	19.058	-	┝	┼		1
2%5	1,0500	2,0500	3.1525	4.3101	5,5256	├—	6.8019	8.1420	-	<u> </u>	┈		14.207	15.917	17.713	┿	┢	╀	23.657	-	-	╁	╀	┼	35.719	38.505	41.430	44.502	╀	-	66.439	-	<u> </u>	+	╀	1
4%	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	20 024		24 825	23.698	25.645	27.674	29.778		34.969	-	ļ	39,083	41.646		56.085	73.652	77.598	95,026	F	ł
33%	4.0300	2.0300	3,0909	4.1836	5.3091		5.4684	7.6625	8.8923	10,159	11,464		12,808	14.192	15.618	17.086	48 500		20.427	24.762	23.414	25.457	26.870		28.676	30.537	32.453	34.426	36.459		47.575	60.462	63,276	75.401	112.797	
7%	4.0200	2.0200	3.0604	4.1216	5.2040		6.3081	7.4343	8 5830	9.7546	10.950		12.169	13.412	14.680	A5 974	47 703		18 630	20.042	24.442	22.844	24.297		25.783	27.299	28.845	30.622	32.030		40,568	49.994	54.994	50.402	84.579	
.4%	4.0000	2.0100	3,0304	4.0604	5,1010		6.1520	7,2435	8.2857	9.3685	10.462		14,567	12,683	13.800	14 947	48.007	2000	47 25R	48.430	40 645	20.844	22 049		23.239	24.472	25.716	26.973	28.243	2	24 785	41.660	43.077	48.886	64.463	
Period		0					u.	7	. «	o	0,		*	2	*	7	, u		4.	> 0	×	2 0	200		**	Ø	23	3.4	*		ę	3.5	36	2 0	205	

Present Value Interest Factors

1	M-000-06	0.5984	iden a	e de la composition	A . Da	Laper Con	#18.Fin	anisadi	(tását).	tona.	etaliko di	 واندام	inida)	ونتونته	الكيفيد	KMSK/	historia (a	er di se	ina/vid	ei i nest	in bissis	herhelia	(S)dia	SilayA.	ine X nie	Aji Abir	SUV-SE	366 4.3 864	es sus	(Saisan)	A.S. 363	eniss.	leine ha	energe cont
30%	0.7692	0.5917	0.4552	0.3501	0.2693		0,2072	0.1594	0.1226	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		e	٠	*	*	*
26%	0.8000	0.6400	0.5120	6,4096	0.3277		0.2621	0.2097	0.1678	0.1342	0,1074	0,0859	0,0687	0.0550	0.0440	0.0352		0.0281	0.0225	0.0180	0.0144	0.0115		0.0092	0.0074	0.0059	0.0047	0.0038		0.0012	,	*	*	*
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	6,0208	0,0168	0.0135		0.0109	0.0088	0.0074	0.0057	0.0046		0.0016	0.0005	*	*	*
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	0.0779	0.0649		0,0541	0.0451	0.0376	0,0313	0,0261		0.0247	0.0181	0.0151	0.0126	0,0105		0.0042	0.0017	0.0014	0.0007	
16%	0.8621	0.7432	0,6407	0.5523	0.4761		0.4104	0.3538	0,3050	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	6.0329	0.0284	0.0245		0.0116	0.0055	0.0048	0.0026	0.0006
15%	0.8696	0.7561	925970	0.5718	0.4972		0.4323	0.3759	0.3269	0.2843	0.2472	0.2149	0.1869	0.1625	0.1413	0.1229		0.1069	0.0929	0.0808	0.0703	0.0611		0.0531	0.0462	0.0402	0.0349	0.0304		0.0151	0.0075	0.0065	0.0037	0.0009
14%	0.8772	0.7695	0.6750	0.5921	0.5194		0.4556	0.3996	0,3506	0.3075	0.2697	0.2366	0.2076	0.1821	0.1597	0.1401		0.1229	0.1078	0.0946	0.0829	0.0728		0.0638	0.0560	0.0491	0.0431	0.0378		0.0196	0.0102	0.0089	0.0053	0.0014
13%	0.8850	0.7831	0.6931	0.6433	0.5428		0.4803	0.4251	0.3762	0.3329	0.2946	0.2607	0.2307	0.2042	0.1807	0.1539		0.1415	0.1252	0.1108	0,0981	0.0868		0.0768	0.0680	0.0604	0.0532	0.0471		0,0256	0.0139	0.0123	0.0075	0.0022
12%	0.8929	0.7972	0.7118	0.6355	0.5674		0.5066	0.4523	0.4039	0.3606	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	0.0169	0.0107	0.0035
14%	0.9009	0.8116	0.7312	0.6587	0.5935		0.5346	0.4817	0.4339	0.3909	0.3522	0.3173	0.2858	0.2575	0.2320	0,2090		0.1883	0.1696	0.1528	0.1377	0.1240		0.1117	0.1007	20600	0.0817	0.0736		0.0437	0.0259	0.0234	0.0154	0.0054
40%	0,9091	0.8264	0.7513	0.6830	0.6209		0.5645	0.6132	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	0.0323	0.0221	0.0085
%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	0.0449	0.0318	0.0134
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	0.4577	0.1460		0,0994	0.0676	0.0626	0.0460	0.0213
7%	0.9346	0.8734	0.8163	0.7629	0.7430		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	0.0875	0.0668	0.0339
%9	0.9434	0.8900	0.8396	0,7921	0,7473		0.7050	0.6654	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	0.1227	0.0972	0.0543
5%	0,9524	0.9070	0.8638	0.8227	0.7835		0.7462	0.7107	0.6768	0.5446	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	0.1727	0,1420	0.0872
49%	0.9615	0.9246	0.8890	0.8548	0.8219		0.7903	0.7599	0.7307	0.7026	99299	0.6496	0.6246	90090	0.5775	0,5553		0.5339	0.5134	0.4936	0.4746	0,4564		0,4388	0.4220	0,4057	0.3901	0.3751		0.3083	0.2534	0.2437	0.2083	0.1407
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	0.5050	0.5874	0.5703	0,5537		0.5375	0.5219	0.5067	0.4919	0.4776		0.4120	0.3554	0,3450	0.3066	0.2281
29%	0.9804	0.9612	0.9423	0.9238	0.9057		0.8880	0.8706	0.8535	0.8368	0.8203	0,8043	0.7885	0.7730	0.7579	0.7430		0.7784	0.7142	0.7002	0.6864	0.6730		96590	0.6468	0,6342	0.6217	0.6095		0.5521	0.5000	0.4902	0.4529	0.3715
1%	0.9901	0.9803	0.9706	0,9640	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	6369'0	0.6717	0.6080
Period	*	~	r	*	S		9	7	8	6	40	¥	12	-63	*	X		Œ.	11	-18	- 19	20		54	22	23	24	26	***	30	35	36	40	20

Present Value Interest Factors Annuity

1								-			ind#(%.	Deve VIII		MIN XXX							200									******		district				
7,002	2002	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	3.3/58		3,3198	3.3230	3,3254	3.3272	3.3286		3.3324	3.3330	3.3331	3,3332	3,3333
24.60	00000	0.800	1,4400	1.9520	2.3616	2,6893		2.9514	3.1611	3,3289	3,4631	3,5705		3.6564	3,7251	3,7801	3.8241	3.8593		3.8874	3,9099	3,9279	3,9424	3.9539		3.9631	3,9705	3,9764	3.9811	3,9849		3,9950	3.9984	3.9987	3,9995	3,9999
7976	1	C00870	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	4,1649	4.1659	4.1666
2000	20000	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	4,9929	4.9966	4,9995
70.74	2000	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	6,2201	6,2335	6,2463
763	0000	0.8696	1,6257	2.2832	2.8550	3.3522		3,7845	4.1604	4.4873	4.77.16	5,0188		5,2337	5,4206	5.5831	5.7245	5.8474		5.9542	6.0472	6.1280	6.1982	6.2593		6,3125	6,3587	6.3988	6.4338	6,4641		6.5660	6,6166	6,6231	6.6418	6.6605
4.28.	# P	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	6,4674	6,5504	6.6231		6.6870	6.7429	6.7921	6.8351	6.8729	1	7.0027	7.0700	7.0790	7,1050	7.1327
726	27.00	0.8850	1,6681	2.3612	2.9745	3.5172		3,9975	4.4226	4,7988	5.1317	5.4262		5,6869	5.9176	6.1218	6,3025	6.4624		6:003	6.7291	6.8399	6,9380	7.0248		7.1016	7,1695	7.2297	7.2829	7,3300		7.4957	7.5856	7.5979	7,6344	7.6752
2862	4	┥	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		8.0552	8,1755	8.1924	8.2438	8.3045
74607	+	+	1.7125	2,4437	3.1024	3,6959		4.2305	4.7122	5.1461	5.5370	5.8892		6.2065	6.4924	6,7499	6.9819	7.1909		7.3792	7.5488	7.7016	7.8393	7.9633		8.0751	8.1757	8.2664	8,3481	8,4217		8.6938	8.8552	8.8786	8,9511	9,0417
7907	+	+	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	8,7775	8.8832	8.9847	9.0770		9.4269	9.6442	9.6765	9,7791	9.9148
1 790	+	1	1.7591	2,5313	3,2397	3.8897		4,4859	5,0330	5,5348	5.9952	6.4177		6.8052	7.1607	7.4869	7.7862	8.0607		8.3126	8,5436	8.7556	8.9501	9.1285		9.2922	9,4424	9.5802	9301.6	9.8226		10.274	10.567	10.612	10.757	10.962
1	-	┥	1.7833	2.6771	3.3121	3,9927		4.6229	5.2064	5,7466	6.2469	6.7101		7.4390	7.5361	_	442	8.5585		8.8514	9.1216	9.3719	9.6036	9.8181		10.017	10,201	10,374	10.529	10,675		11,258	11,655	11.717	11,925	12.233
181-	+	4	1,8080	2.6243	3,3872	4,1002		4,7665	5,3893	5,9713	6.5152	7.0236		7.4987	7.9427	-	8,7455	9.1079		9,4466	9.7632	10.059	10.336	10.594		10.838	11,061	11,272	11.469	11,654		12.409	12.948	13.035	13.332	13.801
1	+	+	1.8334	2,6730	3,4651	4.2124		4.9173	5,5824	6,2098	6.8017	7.3601		7.8869	8.3838	-	-	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	14.621	15.046	15,762
		-	1.8594	2.7232 2	3.5460	4,3295	_	5,0757	5.7864	6.4632	7.1078	7.7217	H	8.3064	8.8633		 	10.380	-	10.838	ļ	11,690	12,085	ļ		12.821	13,163	13.489	13.799	14.094	-	15.372	16.374	16.547	17,159	18,256
	+	0.9615 0	1.8861 1	2,7751 2	3.6299 3	4,4518 4		5.2421 6	6.0021 5	6.7327 6	7.4353 7	8.1109 7		8.7605 8	9.3851 8		ļ	11,118		11.652		12.659	13.134	├		14,029	14,451	14.857 1	15.247	15.622	-	17.292	18.665	18,908	19.793	21.482
	+	0.3709 0	1.9135 1	2.8286 2	3.7171 3	4,5797 4		5,4172 6	6.2303 6	7.0197	7.7861 7	8,5302 8		9.2526 8	9.9540 9	-	-	11,938		12.561	_	13.754 1	14.324 1			15.415 1	15.937 1	16,444	16.936	17,413 1	-	19,600	21,487	21.832 1	23.115 1	
	+	0.9804 0	1.9416 1	2.8839 2	3.8077	4,7135 4		5.6014 5	-	7.3255 7	├—	8.9826 8	┝	9.7868 9	10,575 9	├-	-			13.578	 	14.992 1	15,678 1	╌		17.011	17,658	18.292 1	-	-	 	22.396	24,989 2	25,489 2	27,355 2	-
H	7	0.9901 0	1.9704	2.9410 2	3,9020 3	4,8534 4		5.7955 6		7.6517 7	-	9.4713 8	 	10,368 9	11,255 1	-	-	-	┝	14.718	├	16,398 1	17,226 1	┼	-	18.857	19.660	20,456 1	-	⊢	╁	25.808	29.409	-	32,835	39.186
	Period	•	2 1	3	ed.			9			6	0		1.1	12					9			- 19			73						30	35		0.0	