

HAMIBIA UNIVERSITY

OF SCIENCE AND TECHNOLOGY

FACULTY OF COMMERCE, HUMAN SCIENCES AND EDUCATION

DEPARTMENT OF HOSPITALITY AND TOURISM

QUALIFICATION: BACHELOR OF HOSPITALITY AND TOURISM MANAGEMENT HONOURS											
QUALIFICATION CODE: 08BHTH LEVEL: 8											
COURSE CODE: FMH810S	COURSE NAME: FINANCIAL MANAGEMENT IN HOSPITALITY AND TOURISM										
SESSION: JUNE 2022	PAPER: THEORY AND CALCULATIONS										
DURATION: 3 HOURS	MARKS: 100										

	FIRST OPPORTUNITY EXAMINATION QUESTION PAPER
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INSTRUCTIONS

- 1. Answer ALL the questions in blue or black ink only. NO PENCIL.
- Start each question on a new page, number the answers correctly and clearly.
 Write clearly, neatly and show all your workings/assumptions.
- 4. Work with four (4) decimal places in all your calculations and only round off only final answers to two (2) decimal places unless otherwise stated.
- 5. Questions relating to this examination may be raised in the initial 30 minutes after the start of the examination. Thereafter, candidates must use their initiative to deal with any perceived error or ambiguities and any assumptions made by the candidate should be clearly stated.

PERMISSIBLE MATERIALS

1. Silent, non-programmable calculators

THIS QUESTION PAPER CONSISTS OF _8_ PAGES (excluding this front page and tables)

QUESTION 1 [23 MARKS]

Le Mirage Resort and Spa is a unique establishment in the Sossusvlei area. It is situated 21 km from the Sesriem gate to Sossusvlei. This makes it one of the lodges closest to the Sossusvlei and the ideal place to stay when you want to visit the highest dunes in the world. Le Mirage Resort and Spa is considering two projects which are similar in nature, and both are expected to operate for 4 years. Depreciation is charged on the straight-line basis and the cost of capital of 12%.

The following information is provided:

	Profit after de	preciation		
	Project A	Project B		
Year 0	46 000	46 000		
Year 1	6 500	4 500		
Year 2	3 500	2 500		
Year 3	13 500	4 500		
Year 4	(1 500)	14 500		
Estimated scrap value at the end of year 4	4 000	4 000		

REQUI	RED	MARKS
a)	Calculate the Payback Period for both projects and advise Le Mirage Resort and Spa on which project to undertake	8
b)	Calculate the Net Present Value (NPV) for both projects and advise Le Mirage Resort and Spa on which project(s) to undertake	10
c)	Assume the two projects are mutually exclusive, advise Le Mirage Resort and Spa on which project to undertake	2
d)	Other than Payback Period and NPV, identify any three (3) other investment appraisal techniques	3

QUESTION 2 [17 MARKS]

A company needs to produce a cash budget in order to ensure that there is enough cash within the business to achieve the operational levels set by the functional budgets. The following information relates to NUST hotel school. The cash balance as at the beginning of March 2022 was N\$27 000. The business has the following budgeted incomes and expenses from January to May 2022:

Month	Cash Sales	Credit Sales	Purchases	Salaries	Fixed Overheads
	N\$	N\$	N\$	N\$	N\$
January		74 000	55 200	9 000	30 000
February		82 000	61 200	9 000	25 000
March	20 000	80 000	60 000	9 500	25 000
April	22 000	90 000	69 000	9 500	27 000
May	25 000	100 000	75 000	10 000	32 000

The following information also relates to the business

- · Creditors give one month credit
- Salaries are paid in the current month
- Fixed costs are paid one month in arrears
- Credit sales are settled as follows:
 - > 40% in the month of sale
 - > 45% in the next month following the sale
 - > 12% in two months following the month of sale
 - > The balance represents bad debts.

REQUIRED	MARKS
Prepare a cash budget for the period March – May 2022	17

QUESTION 3 [25 MARKS]

Netflix is the world's leading streaming entertainment service with over 209 million subscribers in over 190 countries (July 2021). Netflix started in 1997 as a DVD mail rental business. In 2007, the company shifted its business model and decided to go digital with the introduction of streaming media. Customers can now access a wide range of movies, TV series, and original Netflix content for an affordable, no-commitment monthly fee.

Netflix is considering launching a new, innovative product onto the Namibian market and is trying to decide on the right launch price for the product. The product's expected life is three years. Given the high level of costs which have been incurred in developing the product, Netflix wants to ensure that it sets its price at the right level and has therefore consulted a market research company to help it do this. The research, which relates to similar but not identical products launched by other companies, has revealed that at a price of N\$60, annual demand would be expected to be 250 000 units. However, for every N\$2 increase in selling price, demand would be expected to fall by 2 000 units and for every N\$2 decrease in selling price, demand would be expected to increase by 2 000 units.

A forecast of the annual production costs which would be incurred by Netflix in relation to the new product are as follows:

Annual production (units)	200 000	250 000	300 000	350 000
	N\$	N\$	N\$	N\$
Direct material	2 400 000	3 000 000	3 600 000	4 200 000
Direct labour	1 200 000	1 500 000	1 800 000	2 100 000
Overheads	1 400 000	1 550 000	1 700 000	1 850 000

REQUI	RED	MARKS
a)	Determine the equation for the demand function (that is, the price as a function of quantity demanded. If $P = a - bx$, then $MR = a - 2bx$)	4
b)	Determine the Marginal Cost (MC)	5
c)	Calculate the optimum price	5
d)	Compute the maximum profit	8
e)	Explain what is meant by price elasticity of demand	3

QUESTION 4 [30 MARKS]

For questions 1-30, write **ONLY** the letter that represents your correct answer. Do not copy the question

- 1. The concept of financial management is
 - a) Profit maximization
 - b) All features of obtaining and using financial resources for company operations
 - c) Organization of funds
 - d) Effective Management of every company
- 2. What is the primary goal of financial management?
 - a) To minimise the risk
 - b) To maximise the owner's wealth
 - c) To maximise the return
 - d) To raise profit
- 3. The finance manager is accountable for.
 - a) Earning capital assets of the company
 - b) Effective management of a fund
 - c) Arrangement of financial resources

- d) Proper utilisation of funds
- 4. Which of the following is concerned with the acquisition, financing, and management of assets with some overall goal in mind?
 - a) Financial management
 - b) Profit maximization
 - c) Agency theory
 - d) Social responsibility
- 5. Jensen and Meckling showed that _____ can assure themselves that the _____ will make optimal decisions only if appropriate incentives are given and only if the _____ are monitored.
 - a) principals; agents; agents
 - b) agents; principals; principals
 - c) principals; agents; principals
 - d) agents; principals; agents
- 6. Which of the following is concerned with the maximization of a firm's earnings after taxes?
 - a) Shareholder wealth maximization
 - b) Profit maximization
 - c) Stakeholder maximization
 - d) Earnings Per Share maximization
- 7. What is the most appropriate goal of the firm?
 - a) Shareholder wealth maximization.
 - b) Profit maximization.
 - c) Stakeholder maximization.
 - d) Earnings Per Share maximization
- 8. Which of the following statements is correct regarding profit maximization as the primary goal of the firm?
 - a) Profit maximization considers the firm's risk level.
 - b) Profit maximization will not lead to increasing short-term profits at the expense of lowering expected future profits.
 - Profit maximization does consider the impact on individual shareholder's Earnings Per Share.
 - d) Profit maximization is concerned more with maximizing net income than the stock price.
- 9. Which of the following is concerned with the branch of economics relating the behaviour of principals and their agents?

- a) Financial management
- b) Profit maximization
- c) Agency theory
- d) Social responsibility
- 10. What is the most important of the three financial management decisions?
 - a) Asset management decision.
 - b) Financing decision.
 - c) Investment decision.
 - d) Accounting decision.
- 11. With this pricing approach, the pricing process begins with the customer, not the cost of the product offering:
 - a) Value-based pricing.
 - b) Cost-based pricing.
 - c) Customer-led pricing.
 - d) Sales pricing.
- 12. When a 10% increase (decrease) in price produces a 10% decrease (increase) in quantity demanded. This is referred to as:
 - a) zero price elasticity of demand.
 - b) infinite price elasticity of demand.
 - c) unit price elasticity of demand.
 - d) indefinite price elasticity of demand.
- 13. Segmentation pricing is where varying prices are set for different groups of customers. Economists call this approach:
 - a) Price discrimination.
 - b) Internal pricing.
 - c) Listed pricing.
 - d) Cost pricing.
- 14. This approach is fairly standard for high-technology offerings or for those offerings that require substantial research and development cost input initially.
 - a) Customer-centric pricing.
 - b) Market penetration pricing.
 - c) Skim pricing.
 - d) None of these

- 15. This allows us to determine how the quantity of an offering relates to the price at which it is offered:
 - a) Price bundling.
 - b) Price elasticity.
 - c) Price inelasticity.
 - d) Price inflation.
- 16. Which of the following has a major influence on pricing decisions?
 - a) Customer demand
 - b) Actions of competitors
 - c) Political, legal, and image-related issues
 - d) All of the above
- 17. What is the name of the practice of setting prices relatively low when introducing a new product to the market?
 - a) Predatory pricing
 - b) Skimming pricing
 - c) Penetration pricing
 - d) Cost-plus pricing
- 18. What is the practice of temporarily reducing a price to broaden demand for a product, with the intention of later restricting supply and increasing the price?
 - a) Predatory pricing
 - b) Skimming pricing
 - c) Penetration pricing
 - d) Cost-plus pricing
- 19. Which best describes the gross margin ratio
 - a) Leverage ratio
 - b) Liquidity ratio
 - c) Coverage ratio
 - d) Profitability ratio
- 20. Ratio analysis expresses the relationship of one number to another number. To add meaning to a ratio it can be compared to
 - a) Budgeted ratios
 - b) Ratios of prior years or accounting periods
 - c) Industry averages
 - d) All of the above

- 21. Which group of ratios measures a firm's ability to meet short-term obligations
 - a) Liquidity ratios
 - b) Debt ratios
 - c) Coverage ratios
 - d) Profitability ratios
- 22. Which of the following assets is not a quick current asset for the purpose of calculating acid test ratio?
 - a) Short term bills receivables
 - b) Cash
 - c) Stock
 - d) Debtors less provision for bad and doubtful debts
- 23. A ratio that compares investors and creditors' stake in a company is
 - a) Debt ratio
 - b) Debt equity ratio
 - c) Equity ratio
 - d) Investor creditor ratio
- 24. The process of budgeting helps in the control of
 - a) Cost of production
 - b) Liquidity
 - c) Capital Expenditure
 - d) All of the above
- 25. Which of the following is not true about a cash budget?
 - a) A cash budget sets out all cash receipts and payments that a business expects to make over a period of time.
 - b) Cash budgets are usually prepared on a month-to-month basis.
 - c) Cash budgets show the expected bank balance at the end of the month.
 - d) Cash budgets include personal cash receipts and expenses.
- 26. Which is the mostly likely purpose of budgeting?
 - a) Planning and control of an organization's income and expenditure
 - b) Preparation of a five-year business plan
 - c) Company valuation
 - d) Assess the non-financial performance of an organization
- 27. The Internal Rate of Return (IRR) method used to compare two investment projects
 - a) ignores the size of each of the projects

- b) is based on accounting profits
- c) is not shown as a percentage
- d) always provides only one IRR for each project
- 28. Net present value (NPV) used to evaluate and investment
 - a) is shown as a percentage
 - b) uses relevant cash flows
 - c) does not allow for the time value of money
 - d) does not require an estimate of the cost of capital
- 29. In cases where capital must be rationed, a firm should rank projects according to?
 - a) net present values.
 - b) internal rates of return.
 - c) profitability indexes.
 - d) external rates of return.
- 30. Which of the following is an example of a capital investment project?
 - a) Replacement of worn-out equipment
 - b) Expansion of production facilities
 - c) Development of employee training programs
 - d) All of the above are examples of capital investment projects.

END OF EXAMINATION QUESTION PAPER

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TABLE A

-	- 1000												/· \							
Futu	re va	alue i	ntere	est fa	actor c	of \$1 p	per pe	eriod a	at 1%	for n p	eriods	, FVIF	(1,n).							
Period	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%	16%	17%	18%	19%	20%
1	1.010	1.020	1.030	1.040	1.050	1.060	1.070	1.080	1.090	1.100	1.110	1.120	1.130	1.140	1.150	1.160	1.170	1.180	1.190	1.200
2	1.020	1.040	1.061	1.082	1.103	1.124	1.145	1.166	1.188	1.210	1.232	1.254	1.277	1,300	1.323	1.346	1.369	1.392	1.416	1.440
3	1.030	1.061	1.093	1.125	1,158	1.191	1.225	1.260	1.295	1.331	1.368	1.405	1.443	1.482	1.521	1.561	1.602	1.643	1.685	1.728
4	1.041	1.082	1.126	1.170	1.216	1.262	1.311	1.360	1.412	1.464	1.518	1.574	1.630	1.689	1.749	1.811	1.874	1.939	2.005	2.074
5	1.051	1.104	1.159	1.217	1.276	1.338	1,403	1.469	1.539	1.611	1.685	1.762	1.842	1,925	2.011	2.100	2.192	2.288	2.386	2.488
6	1.062	1.126	1.194	1.265	1.340	1.419	1.501	1.587	1.677	1.772	1.870	1.974	2.082	2.195	2.313	2.436	2.565	2.700	2.840	2.986
7	1.072	1.149	1.230	1.316	1.407	1.504	1.506	1.714	1.828	1.949	2.076	2.211	2.353	2.502	2.660	2.826	3.001	3.185	3.379	3.583
8	1.083	1.172	1.267	1.369	1.477	1.594	1.718	1.851	1.993	2.144	2.305	2.476	2.658	2.853	3.059	3.278	3.511	3,759	4.021	4.300
9	1.094	1.195	1.305	1.423	1.551	1.689	1.838-	1.999	2.172	2.358	2.558	2.773	3.004	3.252	3.518	3.803	4.108	4,435	4.785	5.160
10	1.105	1,219	1.344	1.480	1.629	1.791	1.967	2.159	2.367	2.594	2.839	3.106	3.395	3.707	4.046	4.411	4.807	5.234	5.695	6.192
11	1.116	1.243	1.384	1.539	1.710	1.898	2.105	2.332	2.580	2.853	3,152	3.479	3.836	4.226	4.652	5.117	5.624	6.176	6.777	7.430
12	1.127	1.268	1.426	1.601	1.796	2.012	2.252	2.518	2.813	3.138	3.498	3.896	4.335	4.818	5.350	5.936	6.580	7.288	8.064	8.916
13	1.138	1.294	1.469	1.665	1.886	2.133	2.410	2.720	3.066	3.452	3.883	4.363	4.898	5.492	6.153	6.886	7.699	8.599	9.596	10.699
14	1.149	1.319	1.513	1.732	1.980	2.261	2.579	2.937	3.342	3.797	4.310	4.887	5.535	6.261	7.076	7.988	9.007	10.147	11.420	12.839
15	1.161	1.346	1.558	1.801	2.079	2.397	2.759	3.172	3.642	4.177	4.785	5.474	6.254	7.138	8.137	9.266	10.539	11.974	13.590	15.407
16	1.173	1.373	1.605	1.873	2.183	2.540	2.952	3.426	3.970	4.595	5.311	6.130	7.067	8.137	9.358	10.748	12.330	14.129	16.172	18.488
17	1.184	1.400	1.653	1.948	2.292	2.693	3.159	3.700	4.328	5.054	5.895	6.866	7.986	9.276	10.761	12.468	14.426	16.672	19.244	22.186
18	1.196	1.428	1.702	2.026	2.407	2.854	3.380	3.996	4.717	5.560	6.544	7.690	9.024	10.575	12.375	14.463	16.879	19.673	22.901	26.623
19	1.208	1.457	1.754	2.107	2.527	3.026	3.617	4.316	5.142	6.116	7.263	8.613	10.197	12.056	14.232	16.777	19.748	23.214	27.252	31.948
20	1.220	1.486	1.806	2.191	2.653	3.207	3.870	4.661	5.604	6.727	8.062	9.646	11.523	13.743	16.367	19.461	23.106	27.393	32,429	38.338
25	1.282	1.641	2.094	2.666	3.386	4.292	5.427	6.848	8.623	10.835	13.585	17.000	21.231	26.462	32.919	40.874	50.658	62.669	77,388	95.396
30	1.348	1.811	2.427	3.243	4.322	5.743	7.612	10.063	13.268	17.449	22.892	29.960	39.116	50.950	66.212	85.850	111.065	143.371	184.675	237.376
35	1.417	2.000	2.814	3.946	5.516	7.686	10.677	14.785	20.414	28.102	38.575	52.800	72.069	98.100	133.176	180.314	243.503	327.997	440.701	590.668
40	1.489	2.208	3.262	4.801	7.040	10.286	14.974	21.725	31.409	45.259	65.001	93.051	132.782	188.884	267.864	378.721	533.869	750.378	1,051.668	1,469.772
50	1.645	2.692	4.384	7.107	11.467	18.420	29.457	46.902	74.358	117.391	184.565	289.002	450.736	700.233	1,083.657	1,670.704	2,566,215	3,927.357	5,988.914	9,100.438

TABLE B

Pres	ent va	lue ir	iteres	t facto	or of S	31 per	perio	d at i	% for	n pe	eriods	s, PV	/IF(i,r	٦).				accepted at 1999 cs (u/) comment	***************************************	¥
Period	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%	16%	17%	18%	19%	20%
1	0.990	0.980	0.971	0.962	0.952	0.943	0.935	0.926	0.917	0.909	0.901	0.893	0.885	0.877	0.870	0.862	0.855	0.847	0.840	0.833
2	0.980	0.961	0.943	0.925	0.907	0.890	0.873	0.857	0.842	0.826	0.812	0.797	0.783	0.769	0.756	0.743	0.731	0.718	0.706	0.694
3	0.971	0.942	0.915	0.889	0.864	0.840	0.816	0.794	0.772	0.751	0.731	0.712	0.693	0.675	0.658	0.641	0.624	0.609	0.593	0.579
4	0.961	0.924	0.888	0.855	0.823	0.792	0.763	0.735	0.708	0.683	0.659	0.636	0.613	0.592	0.572	0.552	0.534	0.516	0.499	0.482
5	0.951	0.906	0.863	0.822	0.784	0.747	0.713	0.681	0.650	0.621	0.593	0.567	0.543	0.519	0.497	0.476	0.456	0.437	0.419	0.402
6	0.942	0.888	0.837	0.790	0.746	0.705	0.666	0.630	0.596	0.564	0.535	0.507	0.480	0.456	0.432	0.410	0.390	0.370	0.352	0.335
7	0.933	0.871	0.813	0.760	0.711	0.665	0.623	0.583	0.547	0.513	0.482	0.452	0.425	0.400	0.376	0.354	0.333	0.314	0.296	0.279
8	0.923	0.853	0.789	0.731	0.677	0.627	0.582	0.540	0.502	0.467	0.434	0.404	0.376	0.351	0.327	0.305	0.285	0.266	0.249	0.233
9	0.914	0.837	0.766	0.703	0.645	0.592	0.544	0.500	0.460	0.424	0.391	0.361	0.333	0.308	0.284	0.263	0.243	0.225	0.209	0.194
-10	0.905	0.820	0.744	0.676	0.614	0.558	0.508	0.463	0.422	0.386	0.352	0.322	0.295	0.270	0.247	0.227	0.208	0.191	0.176	0.162
11	0.896	0.804	0.722	0.650	0.585	0.527	0.475	0.429	0.388	0.350	0.317	0.287	0.261	0.237	0.215	0.195	0.178	0.162	0.148	0.135
12	0.887	0.788	0.701	0.625	0.557	0.497	0.444	0.397	0.356	0.319	0.286	0.257	0.231	0.208	0.187	0.168	0.152	0.137	0.124	0.112
13	0.879	0.773	0.681	0.601	0.530	0.469	0.415	0.368	0.326	0.290	0.258	0.229	0.204	0.182	0.163	0.145	0.130	0.116	0.104	0.093
14	0.870	0.758	0.661	0.577	0.505	0.442	0.388	0.340	0.299	0.263	0.232	0.205	0.181	0.160	0.141	0.125	0.111	0.099	0.088	0.078
15	0.861	0.743	0.642	0.555	0.481	0.417	0.362	0.315	0.275	0.239	0.209	0.183	0.160	0.140	0.123	0.108	0.095	0.084	0.074	0.065
16	0.853	0.728	0.623	0.534	0.458	0.394	0.339	0.292	0.252	0.218	0.188	0.163	0.141	0.123	0.107	0.093	0.081	0.071	0.062	0.054
17	0.844	0.714	0.605	0.513	0.436	0.371	0.317	0.270	0.231	0.198	0.170	0.146	0.125	0.108	0.093	0.080	0.069	0.060	0.052	0.045
18	0.836	0.700	0.587	0.494	0.416	0.350	0.296	0.250	0.212	0.180	0.153	0.130	0.111	0.095	0.081	0.069	0.059	0.051	0.044	0.038
19	0.828	0.686	0.570	0.475	0.396	0.331	0.277	0.232	0.194	0.164	0.138	0.116	0.098	0.083	0.070	0.060	0.051	0.043	0.037	0.031
20	0.820	0.673	0.554	0.456	0.377	0.312	0.258	0.215	0.178	0.149	0.124	0.104	0.087	0.073	0.061	0.051	0.043	0.037	0.031	0.026
25	0.780	0.610	0.478	0.375	0.295	0.233	0.184	0.146	0.116	0.092	0.074	0.059	0.047	0.038	0.030	0.024	0.020	0.016	0.013	0.010
30	0.742	0.552	0.412	0.308	0.231	0.174	0.131	0.099	0.075	0.057	0.044	0.033	0.026	0.020	0.015	0.012	0.009	0.007	0.005	0.004
35 40	0.706 0.672	0.500 0.453	0.355	0.253	0.181	0.130	0.094	0.068	0.049	0.036	0.026	0.019	0.014	0.010	0.008	0.006	0.004	0.003	0.002	0.002
50	0.608	0.453	0.307	0.208	0.142	0.097	0.067	0.046	0.032	0.022	0.015	0.011	0.008	0.005	0.004	0.003	0.002	0.001	0.001	0.001
501	0.000	0.372	0.228	0.141	0.087	0.054	0.034	0.021	0.013	0.009	0.005	0.003	0.002	0.001	0.001	0.001	0.000	0.000	0.000	0.000



TABLE C													· · · · · · · · · · · · · · · · · · ·							
												period at i								
Period	1%						7%	8%	9%	10%	11%	12%		14%	15%		17%	18%		
1	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2	2.010	2.020	2.030	2.040	2.050	2.060	2.070	2.080	2.090	2.100	2.110	2.120	2.130	2.140	2.150	2.160	2.170	2.180	2.190	2.200
3	3.030	3.060	3.091	3.122	3.153	3.184	3.215	3.246	3.278	3.310	3.342	3.374	3.407	3.440	3.473	3.506	3.539	3.572	3.606	3.640
4	4.060	4.122	4.184	4.246	4.310	4.375	4.440	4.506	4.573	4.641	4.710	4.779	4.850	4.921	4.993	5.066	5.141	5.215	5.291	5.368
5	5.101	5.204	5.309	5.416	5.526	5.637	5.751	5.867	5.985	6.105	6.228	6.353	6.480	6.610	6.742	6.877	7.014	7.154	7,297	7.442
6	6.152	6.308	6.468	6.633	6.802	6.975	7.153	7.336	7.523	7.716	7.913	8.115	8.323	8.536	8.754	8.977	9.207	9.442	9.683	9.930
7	7.214	7.434	7.662	7.898	8.142	8.394	8.654	8.923	9.200	9.487	9.783	10.089	10.405	10.730	11.067	11.414	11.772	12.142	12.523	12.916
8	8.286	8.583	8.892	9.214	9.549	9.897	10.260	10.637	11.028	11.436	11.859	12.300	12.757	13.233	13.727	14.240	14.773	15.327	15.902	16.499
9	9.369	9.755	10.159	10.583	11.027	11.491	11.978	12.488	13.021	13.579	14.164	14.776	15.416	16.085	16.786	17.519	18.285	19.086	19,923	20.799
10	10.462	10.950	11.464	12.006	12.578	13.181	13.816	14.487	15,193	15.937	16,722	17.549	18,420	19.337	20.304	21.321	22.393	23.521	24.709	25.959
11	11.567	12.169	12.808	13.486	14.207	14.972	15.784	16.645	17,560	18.531	19.561	20,655	21.814	23.045	24,349	25.733	27.200	28.755	30,404	32.150
12	12.683	13.412	14.192	15.026	15.917	16.870	17.888	18.977	20,141	21.384	22.713	24.133	25.650	27.271	29.002	30.850	32.824	34.931	37.180	39.581
. 13	13.809	14.680	15.618	16.627	17.713	18.882	20.141	21,495	22,953	24.523	26.212	28.029	29.985	32.089	34.352	36.786	39.404	42.219	45.244	48.497
14	14.947	15.974	17.086	18.292	19.599	21.015	22,550	24.215	26.019	27.975	30.095	32.393	34.883	37.581	40.505	43.672	47.103	50.818	54.841	59.196
15	16.097	17.293	18.599	20.024	21,579		Vancous Company	27.152	29.361	31.772	34,405	37.280	40.417	43.842	47.580	51.660	56.110	60.965	66.261	72.035
16	17.258	18.639	20.157	21.825	23.657	25.673	27.888	30.324	33.003	35.950	39,190	42.753	46.672	50.980	55.717	60.925	66.649	72.939	79.850	87,442
17	18.430	20.012	21.762	23.698			30.840	33.750	36.974	40.545	44.501	48.884	53.739	59.118	65.075	71.673	78.979	87.068	96.022	105.93
18	19.615	21.412	23,414	25.645	28.132	170	33.999	37.450	41.301	45.599	50.396	55.750	61.725	68.394	75.836	84.141	93.406	103.74	115.27	128.12
19	20.811	22.841	25,117	27.671	30.539	33.760	37.379	41.446	46.018	51.159	56.939	63.440	70.749	78.969	88.212	98.603	110.28	123.41	138.17	154.74
	22.019	24.297	26.870	29.778			40.995		51.160	57.275	64.203	72.052	80.947	91.025	102.44	115.38	130.03	146.63	165.42	186.69
	28.243	32.030	36,459	41.646	47.727		63.249		84.701	98.347	114.41	133.33	155.62	181.87	212.79	249.21	292.10	342.60	402.04	471.98
	34.785	40.568	47.575	56.085	66.439		94.461	113.28	136.31	164.49	199.02	241.33	293.20	356.79	434.75	530.31	647.44	790.95	966.71	1.181.9
	41.660	49.994	60.462	73.652	90.320	111.43	138.24	172.32		271.02	341.59	431.66	546.68	693.57	881.17		1.426.5			2.948.3
	48.886	60.402	75.401	95.026	120.80	154.76	199.64	259.06	337.88	442.59	581.83		1.013.7	1,342.0	1,779.1	2.360.8				7.343.9
	64.463	84.579	112.80	152.67	209.35		406.53	573.77		1.163.9				4,994.5	7.217.7	10,436		21.813		
501	01.700	04.073	112.00	102.07	203.00	200.04	400.00	3/3.17	013.00	1,100.9	1,000.0	2,400.0	3,439.3	4,334.3	1,211,1	10,430	15,090	21,013	31,313	70,437

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•	TABI	E D																						
	Pres	resent value interest factor of an (ordinary) annuity of \$1 per period at i% for n periods, PVIFA(i,n).												1.18										
	Period	1%	2%	3%	4%	5%	6%	7%	8%	9%		1	12%	13%	14%		16%	17%	18%	19%	20%	21%	22%	239
Г	1	0.990	0.980	0.971	0.962	0.952	0.943	0.935	0.926	0.917	0.909	0.901	0.893	0.885	0.877	0.870	0.862	0.855	0.847	0.840	0.833	0.826	0.820	0.81
	2	1.970	1.942	1.913	1.886	1.859	1.833	1.808	1.783	1.759	1.736	1.713	1,690	1.668	1.647	1,626	1.605	1.585	1.566	1.547	1.528	1.509	1.492	1.47
	3	2.941	2.884	2.829	2.775	2.723	2.673	2.624	2.577	2.531	2.487	2.444	2.402	2.361	2.322	2.283	2.246	2.210	2.174	2.140	2.106	2.074	2.042	2.011
	4	3.902	3.808	3.717	3,630	3.546	3.465	3.387	3.312	3.240	3.170	3.102	3.037	2.974	2.914	2.855	2.798	2.743	2.690	2.639	2.589	2.540	2.494	2.448
L	5	4.853	4.713	4.580	4.452	4.329	4.212	4.100	3.993	3.890	3.791	3.696	3.605	3.517	3.433	3.352	3.274	3.199	3.127	3,058	2.991	2.926	2.864	2.803
	6	5.795	5.601	5.417	5.242	5.076	4.917	4.767	4.623	4.486	4.355	4.231	4.111	3.998	3,889	3.784	3,685	3.589	3.498	3.410	3.326	3.245	3.167	3.092
	7	6.728	6.472	6.230	6.002	5.786	5.582	5.389	5.206	5.033	4.868	4.712	4.564	4.423	4.288	4.160	4.039	3.922	3.812	3.706	3.605	3.508	3.416	3.327
	8	7.652	7.325	7.020	6.733	6.463	6.210	5.971	5.747	5.535	5.335	5.146	4.968	4.799	4.639	4.487	4.344	4.207	4.078	3.954	3.837	3.726	3.619	3,518
1	9	8.566	8.162	7.786	7.435	7.108	6.802	6.515	6.247	5.995	5.759	5.537	5.328	5.132	4.946	4.772	4.607	4.451	4.303	4.163	4.031	3.905	3.786	3.673
	10	9.471	8.983	8,530	8.111	7.722	7.360	7.024	6.710	6.418	6.145	5.889	5.650	5.426	5.216	5.019	4.833	4.659	4.494	4.339	4.192	4.054	3.923	3.799
	11	10.368	9.787	9,253	8.760	8.306	7.887	7.499	7.139	6.805	6.495	6.207	5.938	5.687	5.453	5.234	5.029	4.836	4.656	4.486	4.327	4.177	4.035	3.902
	12	11.255	10.575	9.954	9.385	8.863	8.384	7.943	7.536	7.161	6.814	6.492	6.194	5.918	5.660	5.421	5.197	4.988	4.793	4.611	4.439	4.278	4.127	3.985
	13	12.134	11.348	10.635	9.986	9.394	8.853	8.358	7.904	7.487	7.103	6.750	6.424	6.122	5.842	5.583	5.342	5.118	4.910	4.715	4.533	4.362	4.203	4.053
-	14	13.004	12.106	11,296	10.563	9.899	9.295	8.745	8.244	7.786	7.367	6.982	6.628	6.302	6.002	5.724	5.468	5.229	5.008	4.802	4.611	4.432	4.265	4.108
1	15	13.865	12.849	11.938	11.118	10.380	9.712	9.108	8.559	8.061	7.606	7.191	6.811	6.462	6.142	5.847	5.575	5.324	5.092	4.876	4.675	4.489	4.315	4.153
	16	14.718	13.578	12.561	11.652	10.838	10.106	9.447	8.851	8,313	7.824	7.379	6.974	6.604	6.265	5.954	5.668	5.405	5.162	4.938	4.730	4,536	4.357	4.189
1	17	15.562	14.292	13.166	12.166	11.274	10.477	9.763	9.122	8.544	8.022	7.549	7.120	6.729	6.373	5.047	5.749	5.475	5.222	4.990	4.775	4.576	4.391	4.219
	18	16.398	14.992	13,754	12.659	11.690	10.828	10.059	9.372	8.756	8.201	7.702	7.250	6.840	6.467	6.128	5.818	5.534	5.273	5.033	4.812	4.608	4,419	4.243
1	19	17.226	15.678	14,324	13.134	12.085	11.158	10.336	9.604	8.950	8.365	7.839	7.366	6.938	6.550	6.198	5.877	5.584	5.316	5.070	4.843	4.635	4.442	4.263
	20	18.046	16.351	14.877	13.590	12.462	11.470	10.594	9.818	9.129	8.514	7.963	7.469	7.025	6.623	6.259	5.929	5.628	5.353	5.101	4.870	4.657	4.460	4.279
	25	22.023	19,523	17.413	15.622	14.094	12.783	11.654	10.675	9.823	9.077	8.422	7.843	7.330	6.873	6.464	6.097	5.766	5,467	5.195	4.948	4.721	4.514	4.323
1	30	25.808	22.396	19.600	17.292	15.372	13.765	12.409	11.258	10.274	9.427	8.694	8.055	7.496	7.003	6.566	6.177	5.829	5.517	5.235	4.979	4.746	4.534	4,339
	35	29,409	24.999	21.487	18.665	16.374	14.498	12,948	11.655	10.567	9.644	8.855	8.176	7.586	7.070	6.617	6.215	5.858	5.539	5.251	4.992	4.756	4,541	4,345
		32.835	27.355	23.115	19.793	17.159	15.046	13.332	11.925	10.757	9.779	8.951	8.244	7.534	7.105	6,642	6.233	5.871	5.548	5.258	4.997	4.760	4.544	4.347
	50	39.196	31,424	25.730	21,482	18.256	15.762	13.801	12.233	10.962	9.915	9.042	8.304	7.675	7.133	6.661	6,246	5.880	5.554	5.262	4.999	4.762	4.545	4.348



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