



**UNIVERSITI TUN HUSSEIN ONN
MALAYSIA**

**FINAL EXAMINATION
SEMESTER II
SESSION 2008/2009**

NAME OF SUBJECT : PRINCIPLE OF FINANCE
CODE OF SUBJECT : BPA 1063
COURSES : 1 BPA / BPB
EXAMINATION DATE : APRIL 2008
DURATION : 3 HOURS
INSTRUCTION : **PART A:**
ANSWER ALL QUESTION

PART B:
ANSWER ONLY **FOUR (4)** QUESTION
FROM FIVE (5)

THIS QUESTION PAPER CONTAIN 9 PAGES

BAHAGIAN A: 20 markah

PART A: 20 marks

- S1 (a) Terangkan **DUA (2)** peranan pengurus kewangan. (4 markah)
- Q1 (a) Explain **TWO (2)** roles of a financial manager. (4 marks)
- S2 Senaraikan;
- (a) **DUA (2)** kelebihan perniagaan tunggal. (2 markah)
- (b) **DUA (2)** kekurangan perniagaan tunggal. (2 markah)
- Q2 Lists;
- (a) **TWO (2)** advantages and of sole proprietorship. (2 marks)
- (b) **TWO (2)** disadvantages of sole proprietorship. (2 marks)
- S3 Senaraikan **EMPAT (4)** kriteria Bon. (4 markah)
- Q3 Lists **FOUR (4)** characteristics of Bond. (4 marks)
- S4 Senaraikan;
- (a) **DUA (2)** kelebihan teknik Nilai Kini Bersih (NKB). (2 markah)
- (b) **DUA (2)** kelemahan teknik Nilai Kini Bersih (NKB). (2 markah)

Q4 Lists;

(a) **TWO (2) advantages of Net Present Value technique (NPV).** (2 marks)

(b) **TWO (2) disadvantages of Net Present Value technique (NPV).** (2 marks)

S5 Terangkan maksud terma di bawah;

(a) **Varian.** (2 markah)

(b) **Pekali Variasi.** (2 markah)

Q5 Explain the meaning of the following term.

(a) **Variance.** (2 marks)

(b) **Coefficient of variation.** (2 marks)

BAHAGIAN B 80 markah**PART B: 80 marks**

- S6 Anda sedang menimbangkan dua alternatif untuk membeli saham dari syarikat A atau B. Broker saham telah menyediakan anggaran pulangan bagi kedua-dua saham seperti yang tertera di bawah.

Jadual S6 : Kebarangkalian Pulangan bagi Syarikat A dan B

Saham Syarikat A		Saham Syarikat B	
Kebarangkalian	Pulangan (%)	Kebarangkalian	Pulangan (%)
0.05	5	0.05	15
0.15	30	0.05	35
0.25	25	0.20	20
0.25	15	0.20	30
0.30	20	0.50	25

- (a) Lakarkan carta bar bagi saham A dan B. (12 markah)
- (b) Hitungkan julat taburan kebarangkalian pulangan bagi saham A dan B. (4 markah)
- (c) Tentukan saham mana yang lebih berisiko. Nyatakan alasan anda. (4 markah)
- Q6 You are considering two alternatives in buying shares from either Company A or Company B. The share broker had prepared an estimated return for both these shares as stated below.

Table Q6 : Probability of Return For Company A and B

Saham Syarikat A		Saham Syarikat B	
Kebarangkalian	Pulangan (%)	Kebarangkalian	Pulangan (%)
0.05	5	0.05	15
0.15	30	0.05	35
0.25	25	0.20	20
0.25	15	0.20	30
0.30	20	0.50	25

- (a) Draw a bar chart for the shares in Company A and B. (12 marks)
- (b) Calculate the range of probability distribution for the return of shares in Company A and B. (4 marks)

- (c) *Determine which of the shares is riskier. Please state your answer?*
(4 marks)

S7 Gunakan kaedah penjadualan, pengiraan manual dan lakaran garis masa yang bersesuaian bagi menjawab soalan-soalan di bawah;

- (a) Hitungkan nilai hadapan (FV) bagi RM260 yang dilaburkan selama 3 tahun dengan kadar faedah 10 peratus setahun yang dikompaunkan secara berterusan?
(6 markah)

- (b) Hitungkan nilai kini (PV) bagi RM200 yang bakal diterima 5 tahun dari sekarang dan dikompaunkan secara berterusan pada kadar faedah 6% setahun?
(6 markah)

- (c) Mr. X merancang untuk melabur sebanyak RM3000 setahun ke dalam Skim Pelaburan Pencen selama 15 tahun. Mr X ingin mengetahui keputusan untuk melabur R3000 pada setiap awal tahun atau pada setiap hujung tahun.

Hitungkan perbezaan nilai bagi dua jenis aliran tunai jika kadar faedah adalah 8% setahun.
(8 markah)

Q7 *Use the appropriate schedule and manual solution and also draw the time line to answers the questions below:*

- (a) *Calculate the future value (FV) for RM260 that is invested now for 3 years at the interest rate of 10 percent per year and compounded continuously?*
(6 marks)

- (b) *Calculate is the present value (PV) for RM200 that will be received 5 years from now and discounted continuously at the interest rate of 6 percent per year?*
(6 marks)

- (c) *Mr. X plans to invest RM3,000 a year in the Pension Investment Scheme for a period of 15 years. Mr. X wants to know the result of the RM3,000 investment at the beginning of each year compared with the end of each year.*

Calculate the value differences between the two types of cash flow if the interest rate is 8 percent per year.
(8 marks)

S8 Jawab soalan tentang penilaian bon di bawah dengan menggunakan kaedah penyelesaian manual dan jadual yang bersesuaian serta lakarkan garis masa yang bersesuaian;

(a) Hitungkan nilai bon yang mempunyai tempoh matang 12 tahun dengan mempunyai nilai muka RM1000. Kadar kupon adalah 8% dan kadar pulangan yang diperlukan adalah 13%.

(8 markah)

(b) Hitungkan nilai bon yang mempunyai tempoh matang 8 tahun dengan mempunyai nilai par adalah RM1000. Nilai kadar kupon adalah 12% yang dibayar 2 kali setahun dan kadar pulangan yang diperlukan adalah 10%.

(8 markah)

(c) Jelaskan kesan bayaran yang melebihi sekali setahun ke atas nilai bon?

(4 markah)

Q8 *Answer question about bond evaluation by using manual solution and the appropriate schedule and also draw the appropriate time line.*

(a) *Calculate the value of bond that have a maturity period of 12 years with a face value of RM1,000. The coupon rate is 8% and the required rate of return is 13%.*

(8 marks)

(b) *Calculate the value of bond that have a maturity period of 8 years with a par value of RM1,000. The coupon rate of 12% is payable twice a year and the required rate of return is 10%.*

(8 marks)

(c) *How do payments of more than once a year give effect to the value of the bond?*

(4 marks)

S9 Berdasarkan maklumat di bawah, anda dikehendaki mengira nilai kini bersih (NPV) bagi setiap pelaburan.

(a) Pembukaan sebuah pasar raya mini melibatkan kos sebanyak RM300,000 sebagai kos permulaan modal. Adalah dijangkakan bahawa pasar raya mini tersebut akan memberi aliran masuk tunai sebanyak RM20,000 setiap tahun selama lima tahun. Pada tahun kelima mini market tersebut boleh dijual pada harga RM400,000. Berapakah nilai NPV jika kos modal adalah bersamaan dengan 10%?

(5 markah)

- (b) Anda dikehendaki menilai tiga pelaburan yang mempunyai jangkaan aliran tunai seperti yang ditunjukkan di dalam jadual di bawah; (8 markah)

Jadual S9 : Aliran Tunai Bagi Pelaburan A, B dan C

Aliran tunai (RM)			
Tahun	Pelaburan A	Pelaburan B	Pelaburan C
0	-26,000	-500,000	-100,000
1	4,000	100,000	0
2	4,000	120,000	0
3	4,000	140,000	0
4	4,000	160,000	30,000
5	4,000	180,000	40,000
6	4,000	200,000	0
7	4,000	-	60,000
8	4,000	-	70,000
9	4,000	-	-
10	4,000	-	-

Diandaikan kos modal bagi semua projek tersebut adalah 10%. Dengan menggunakan teknik NPV, jelaskan sama ada anda perlu melabur dalam kesemua pelaburan?

(15 markah)

Q9 Based on the information given, you are required to calculate the Net Present Value (NPV) to evaluate each investment.

- (a) The opening of a mini market involves the cost of RM300,000 as the initial capital. It is expected that the mini market will generate a cash flow of RM20,000 every year for a period of five years. At the end of the fifth year, the mini market can be sold to generate a cash flow of RM400,000. What is the NPV if the cost of capital is equivalent to 10%?

(5 marks)

- (b) You are required to evaluate three projects that have a cash flow estimation as shown in the table Q9 below;

Table Q9 : Cash Flow of Investment A, B and C

Cash Flow (RM)			
Year	Investment A	Investment B	Investment C
0	-26,000	-500,000	-100,000
1	4,000	100,000	0
2	4,000	120,000	0
3	4,000	140,000	0
4	4,000	160,000	30,000
5	4,000	180,000	40,000
6	4,000	200,000	0
7	4,000	-	60,000
8	4,000	-	70,000
9	4,000	-	-
10	4,000	-	-

If the cost of capital for these projects is 10%, should you make investments in these projects if you use the NPV technique?

(15 marks)

- S10 Sebuah projek mempunyai aliran keluar tunai sebanyak RM10,000 dan akan membawa aliran tunai masuk sebanyak RM3,000 di hujung tahun pertama, RM5000 di hujung tahun kedua dan RM7500 di hujung tahun ketiga. Jika kos modal kerja adalah 12% setahun,

Hitungkan.

- (a) Tempoh bayaran balik (6 markah)
- (b) Nilai kini bersih (6 markah)
- (c) Kadar pulangan dalaman (8 markah)

Q10 A project has the initial cash outflow of RM10,000 and produces cash inflow of RM3,000 at the end of the first year, RM5,000 at the end of the second year and RM7,500 at the end of the third year. If the cost of capital is equal to 12%;

Calculate.

- (a) *Pay back period* (6 marks)
- (b) *Net present value* (6 marks)
- (c) *Internal rate of return* (8 marks)

**KERTAS SOALAN TAMAT
END OF QUESTION PAPER**

PEPERIKSAAN AKHIR

SEMESTER / SESI : SEM II / 2008/2009
MATA PELAJARAN : PRINCIPLE OF FINANCE

KURSUS : 1 BPA / BPB
KOD MATAPELAJARAN: BPA1063

TABLE A-1 Present Value of \$1 Due at the End of n Periods

PERIOD	FINANCIAL CALCULATOR KEYS:									
	n N	i I	PV	PMT	FV	0	1.0	PV	PMT	FV
	EQUATION: $PVIF_{i,n} = \frac{1}{(1+i)^n}$									
	TABLE VALUE									
	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%
1	.9901	.9804	.9709	.9615	.9524	.9434	.9346	.9259	.9174	.9091
2	.9803	.9612	.9426	.9246	.9070	.8900	.8734	.8573	.8417	.8264
3	.9706	.9423	.9151	.8890	.8638	.8396	.8163	.7938	.7722	.7513
4	.9610	.9238	.8885	.8548	.8227	.7921	.7629	.7350	.7084	.6830
5	.9515	.9057	.8626	.8219	.7835	.7473	.7130	.6806	.6499	.6209
6	.9420	.8880	.8375	.7903	.7462	.7050	.6663	.6302	.5963	.5645
7	.9327	.8706	.8131	.7599	.7107	.6651	.6227	.5835	.5470	.5132
8	.9235	.8535	.7894	.7307	.6768	.6274	.5820	.5403	.5019	.4665
9	.9143	.8368	.7664	.7026	.6446	.5919	.5439	.5002	.4604	.4241
10	.9053	.8203	.7441	.6756	.6139	.5584	.5083	.4632	.4224	.3855
11	.8963	.8043	.7224	.6496	.5847	.5268	.4751	.4289	.3875	.3505
12	.8874	.7885	.7014	.6246	.5568	.4970	.4440	.3971	.3555	.3186
13	.8787	.7730	.6810	.6006	.5303	.4686	.4150	.3677	.3262	.2897
14	.8700	.7579	.6611	.5775	.5031	.4423	.3878	.3405	.2992	.2633
15	.8613	.7430	.6419	.5553	.4810	.4173	.3624	.3152	.2745	.2394
16	.8528	.7284	.6232	.5339	.4581	.3936	.3387	.2919	.2519	.2176
17	.8444	.7142	.6050	.5134	.4361	.3714	.3166	.2703	.2311	.1978
18	.8360	.7002	.5874	.4936	.4153	.3503	.2959	.2502	.2120	.1799
19	.8277	.6864	.5703	.4746	.3957	.3305	.2765	.2317	.1945	.1635
20	.8195	.6730	.5537	.4564	.3769	.3118	.2584	.2145	.1784	.1486
21	.8114	.6598	.5375	.4388	.3589	.2942	.2415	.1987	.1637	.1351
22	.8034	.6468	.5219	.4220	.3418	.2775	.2257	.1839	.1502	.1228
23	.7954	.6342	.5067	.4057	.3256	.2618	.2109	.1703	.1378	.1117
24	.7876	.6217	.4919	.3901	.3101	.2470	.1971	.1577	.1264	.1015
25	.7798	.6095	.4776	.3751	.2953	.2330	.1842	.1460	.1160	.0923
26	.7720	.5976	.4637	.3607	.2812	.2198	.1722	.1352	.1064	.0839
27	.7644	.5859	.4502	.3468	.2678	.2074	.1609	.1252	.0976	.0763
28	.7568	.5744	.4371	.3333	.2551	.1956	.1501	.1159	.0895	.0693
29	.7493	.5631	.4243	.3207	.2429	.1846	.1406	.1073	.0822	.0630
30	.7419	.5521	.4120	.3083	.2314	.1741	.1314	.0994	.0754	.0573
35	.7059	.5000	.3554	.2534	.1813	.1301	.0937	.0676	.0490	.0356
40	.6717	.4529	.3066	.2083	.1420	.0972	.0668	.0460	.0318	.0221
45	.6391	.4102	.2644	.1712	.1113	.0727	.0476	.0313	.0207	.0137
50	.6080	.3715	.2281	.1407	.0872	.0543	.0339	.0213	.0134	.0085
55	.5785	.3365	.1968	.1157	.0683	.0406	.0242	.0145	.0087	.0053

PEPERIKSAAN AKHIR

SEMESTER / SESI : SEM II / 2008/2009
 MATA PELAJARAN : PRINCIPLE OF FINANCE

KURSUS : I BPA / BPB
 KOD MATAPELAJARAN: BPA1063

TABLE A-1 continued

PERIOD	12%	14%	15%	16%	18%	20%	24%	28%	32%	36%
1	.8929	.8772	.8696	.8621	.8475	.8333	.8065	.7813	.7576	.7353
2	.7972	.7695	.7561	.7432	.7182	.6944	.6504	.6104	.5739	.5407
3	.7118	.6750	.6575	.6407	.6086	.5787	.5245	.4768	.4348	.3975
4	.6355	.5921	.5718	.5523	.5158	.4823	.4230	.3725	.3294	.2923
5	.5674	.5194	.4972	.4761	.4371	.4019	.3411	.2910	.2495	.2149
6	.5066	.4556	.4323	.4104	.3704	.3349	.2751	.2274	.1890	.1580
7	.4523	.3996	.3759	.3538	.3139	.2791	.2218	.1776	.1432	.1162
8	.4039	.3506	.3269	.3050	.2660	.2326	.1789	.1388	.1085	.0854
9	.3606	.3075	.2843	.2630	.2255	.1938	.1443	.1084	.0822	.0628
10	.3220	.2697	.2472	.2267	.1913	.1615	.1164	.0847	.0623	.0462
11	.2875	.2366	.2149	.1954	.1619	.1346	.0938	.0662	.0472	.0340
12	.2567	.2076	.1869	.1685	.1372	.1122	.0757	.0517	.0357	.0250
13	.2292	.1821	.1625	.1452	.1163	.0935	.0610	.0404	.0271	.0184
14	.2046	.1597	.1413	.1252	.0985	.0779	.0492	.0316	.0205	.0135
15	.1827	.1401	.1229	.1079	.0835	.0649	.0397	.0247	.0155	.0099
16	.1631	.1229	.1069	.0930	.0708	.0541	.0320	.0193	.0118	.0073
17	.1456	.1078	.0929	.0802	.0600	.0451	.0258	.0150	.0089	.0054
18	.1300	.0946	.0808	.0691	.0508	.0376	.0208	.0118	.0068	.0039
19	.1161	.0829	.0703	.0596	.0431	.0313	.0168	.0092	.0053	.0029
20	.1037	.0728	.0611	.0514	.0365	.0261	.0135	.0072	.0039	.0021
21	.0926	.0638	.0531	.0443	.0309	.0217	.0109	.0056	.0029	.0016
22	.0826	.0560	.0462	.0382	.0262	.0181	.0088	.0044	.0022	.0012
23	.0738	.0491	.0402	.0329	.0222	.0151	.0071	.0034	.0017	.0008
24	.0659	.0431	.0349	.0284	.0188	.0126	.0057	.0027	.0013	.0006
25	.0588	.0378	.0304	.0245	.0160	.0105	.0046	.0021	.0010	.0005
26	.0525	.0331	.0264	.0211	.0135	.0087	.0037	.0016	.0007	.0003
27	.0469	.0291	.0230	.0182	.0115	.0073	.0030	.0013	.0006	.0002
28	.0419	.0255	.0200	.0157	.0097	.0061	.0024	.0010	.0004	.0002
29	.0374	.0224	.0174	.0135	.0082	.0051	.0020	.0008	.0003	.0001
30	.0334	.0196	.0151	.0116	.0070	.0042	.0016	.0006	.0002	.0001
35	.0189	.0102	.0075	.0055	.0030	.0017	.0005	.0002	.0001	.
40	.0107	.0053	.0037	.0026	.0013	.0007	.0002	.0001	.	.
45	.0061	.0027	.0019	.0013	.0006	.0003	.0001	.	.	.
50	.0035	.0014	.0009	.0006	.0003	.0001	.	.	.	.
55	.0020	.0007	.0005	.0003	.0001	.	.	.	.	.

PEPERIKSAAN AKHIR

SEMESTER / SESI : SEM II / 2008/2009
MATA PELAJARAN : PRINCIPLE OF FINANCE

KURSUS : 1 BPA / BPB
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TABLE A-2 Present Value of an Annuity of \$1 per Period for n Periods

EQUATION:

$$PVIFA_{i,n} = \sum_{t=1}^n \frac{1}{(1+i)^t} = \frac{1 - \frac{1}{(1+i)^n}}{i} = \frac{1}{i} - \frac{1}{i(1+i)^n}$$

FINANCIAL CALCULATOR KEYS:

n i 1.0 0
N I PV FMT FV

TABLE
VALUE

NUMBER OF PERIODS	1%	2%	3%	4%	5%	6%	7%	8%	9%
1	0.9901	0.9804	0.9709	0.9615	0.9524	0.9434	0.9346	0.9259	0.9174
2	1.9704	1.9416	1.9135	1.8861	1.8594	1.8334	1.8080	1.7833	1.7591
3	2.9410	2.8839	2.8286	2.7751	2.7232	2.6730	2.6243	2.5771	2.5313
4	3.9020	3.8077	3.7171	3.6299	3.5460	3.4651	3.3872	3.3121	3.2397
5	4.8534	4.7135	4.5797	4.4518	4.3295	4.2124	4.1002	3.9927	3.8897
6	5.7955	5.6014	5.4172	5.2421	5.0757	4.9173	4.7665	4.6229	4.4859
7	6.7282	6.4720	6.2303	6.0021	5.7864	5.5824	5.3893	5.2064	5.0330
8	7.6517	7.3253	7.0197	6.7327	6.4632	6.2098	5.9713	5.7466	5.5348
9	8.5660	8.1622	7.7861	7.4353	7.1078	6.8017	6.5152	6.2469	5.9952
10	9.4713	8.9826	8.5102	8.1109	7.7217	7.3601	7.0236	6.7101	6.4177
11	10.3676	9.7868	9.2526	8.7805	8.3064	7.8869	7.4987	7.1390	6.8052
12	11.2551	10.5753	9.9540	9.3851	8.8633	8.3838	7.9427	7.5361	7.1607
13	12.1337	11.3484	10.6350	9.9856	9.3936	8.8527	8.3577	7.9038	7.4869
14	13.0037	12.1062	11.2961	10.5631	9.8996	9.2950	8.7455	8.2442	7.7862
15	13.8651	12.8493	11.9379	11.1184	10.3797	9.7122	9.1079	8.5595	8.0607
16	14.7179	13.5777	12.5611	11.6523	10.8378	10.1059	9.4466	8.8514	8.3126
17	15.5623	14.2919	13.1661	12.1657	11.2741	10.4773	9.7632	9.1216	8.5436
18	16.3983	14.9920	13.7515	12.6591	11.6896	10.8276	10.0591	9.3719	8.7556
19	17.2260	15.6783	14.3238	13.1339	12.0851	11.1581	10.3356	9.6036	8.9501
20	18.0456	16.3514	14.8775	13.5903	12.4622	11.4699	10.5940	9.8181	9.1285
21	18.8570	17.0112	15.4150	14.0292	12.8212	11.7641	10.8355	10.0168	9.2922
22	19.6604	17.6580	15.9369	14.4511	13.1630	12.0416	11.0612	10.2007	9.4424
23	20.4558	18.2922	16.4436	14.8568	13.4886	12.3034	11.2722	10.3711	9.5802
24	21.2434	18.9139	16.9355	15.2470	13.7986	12.5504	11.4693	10.5288	9.7066
25	22.0232	19.5235	17.4131	15.6221	14.0939	12.7834	11.6536	10.6748	9.8226
26	22.7952	20.1210	17.8768	15.9828	14.3752	13.0022	11.8258	10.8100	9.9290
27	23.5596	20.7069	18.3270	16.3296	14.6430	13.2105	11.9867	10.9352	10.0266
28	24.3164	21.2813	18.7641	16.6631	14.8981	13.4062	12.1371	11.0511	10.1161
29	25.0658	21.8444	19.1885	16.9837	15.1411	13.5907	12.2777	11.1584	10.1983
30	25.8077	22.3965	19.6004	17.2920	15.3725	13.7648	12.4090	11.2578	10.2737
35	29.4086	24.9986	21.4872	18.6646	16.3742	14.4982	12.9477	11.6546	10.5668
40	32.8347	27.3555	23.1148	19.7928	17.1591	15.0463	13.3317	11.9246	10.7574
45	36.0945	29.4902	24.5187	20.7200	17.7741	15.4558	13.6055	12.1084	10.8812
50	39.1961	31.4236	25.7298	21.4822	18.2559	15.7619	13.8007	12.2335	10.9617
55	42.1472	33.1748	26.7744	22.1086	18.6335	15.9905	13.9399	12.3186	11.0140

PEPERIKSAAN AKHIR

SEMESTER / SESI : SEM II / 2008/2009
MATA PELAJARAN : PRINCIPLE OF FINANCE

KURSUS : I BPA / BPB
KOD MATAPELAJARAN: BPA1063

TABLE A-2 continued

NUMBER OF PERIODS	10%	12%	14%	15%	16%	18%	20%	24%	28%	32%
1	0.9091	0.8929	0.8772	0.8696	0.8621	0.8475	0.8313	0.8065	0.7813	0.7576
2	1.7355	1.6901	1.6467	1.6257	1.6052	1.5656	1.5278	1.4568	1.3916	1.3315
3	2.4869	2.4018	2.3216	2.2832	2.2459	2.1743	2.1065	1.9813	1.8684	1.7661
4	3.1699	3.0373	2.9137	2.8550	2.7982	2.6901	2.5887	2.4043	2.2410	2.0957
5	3.7908	3.6048	3.4331	3.3522	3.2743	3.1272	2.9906	2.7454	2.5320	2.3452
6	4.3553	4.1114	3.8887	3.7845	3.6847	3.4976	3.3255	3.0205	2.7594	2.5342
7	4.8684	4.5638	4.2983	4.1604	4.0386	3.8115	3.6046	3.2423	2.9370	2.6775
8	5.3349	4.9676	4.6389	4.4873	4.3416	4.0776	3.8372	3.4212	3.0738	2.7860
9	5.7590	5.3282	4.9464	4.7716	4.6065	4.3010	4.0310	3.5655	3.1842	2.8681
10	6.1446	5.6502	5.2161	5.0188	4.8332	4.4941	4.1925	3.6819	3.2689	2.9304
11	6.4951	5.9377	5.4527	5.2337	5.0286	4.6560	4.3271	3.7757	3.3351	2.9776
12	6.8137	6.1944	5.6603	5.4206	5.1971	4.7932	4.4392	3.8514	3.3868	3.0133
13	7.1034	6.4235	5.8424	5.5831	5.3423	4.9095	4.5327	3.9124	3.4272	3.0404
14	7.3667	6.6282	6.0021	5.7245	5.4675	5.0081	4.6106	3.9616	3.4587	3.0609
15	7.6061	6.8109	6.1422	5.8474	5.5755	5.0916	4.6755	4.0013	3.4834	3.0764
16	7.8237	6.9740	6.2651	5.9542	5.6683	5.1624	4.7296	4.0333	3.5026	3.0882
17	8.0216	7.1196	6.3729	6.0472	5.7487	5.2223	4.7746	4.0593	3.5177	3.0971
18	8.2014	7.2497	6.4674	6.1280	5.8178	5.2732	4.8122	4.0799	3.5294	3.1039
19	8.3649	7.3658	6.5504	6.1982	5.8775	5.3162	4.8435	4.0967	3.5388	3.1090
20	8.5136	7.4694	6.6231	6.2593	5.9288	5.3527	4.8696	4.1103	3.5458	3.1129
21	8.6487	7.5620	6.6870	6.3125	5.9731	5.3837	4.8913	4.1212	3.5514	3.1158
22	8.7715	7.6446	6.7429	6.3587	6.0113	5.4099	4.9098	4.1300	3.5558	3.1180
23	8.8832	7.7184	6.7921	6.3988	6.0442	5.4321	4.9245	4.1371	3.5592	3.1197
24	8.9847	7.7843	6.8351	6.4338	6.0726	5.4509	4.9371	4.1428	3.5619	3.1210
25	9.0770	7.8433	6.8729	6.4641	6.0971	5.4669	4.9476	4.1474	3.5640	3.1220
26	9.1609	7.8957	6.9061	6.4906	6.1182	5.4804	4.9563	4.1511	3.5656	3.1227
27	9.2372	7.9426	6.9352	6.5133	6.1364	5.4919	4.9636	4.1542	3.5669	3.1233
28	9.3066	7.9844	6.9607	6.5335	6.1520	5.5016	4.9697	4.1566	3.5679	3.1237
29	9.3696	8.0218	6.9830	6.5509	6.1656	5.5098	4.9747	4.1585	3.5687	3.1240
30	9.4269	8.0552	7.0027	6.5660	6.1772	5.5168	4.9789	4.1601	3.5693	3.1242
35	9.6442	8.1755	7.0700	6.6166	6.2153	5.5386	4.9915	4.1644	3.5708	3.1248
40	9.7791	8.2438	7.1050	6.6418	6.2335	5.5482	4.9966	4.1659	3.5712	3.1250
45	9.8628	8.2825	7.1232	6.6543	6.2421	5.5523	4.9986	4.1664	3.5714	3.1250
50	9.9148	8.3045	7.1327	6.6605	6.2463	5.5541	4.9995	4.1666	3.5714	3.1250
55	9.9471	8.3170	7.1376	6.6636	6.2482	5.5549	4.9998	4.1666	3.5714	3.1250

PEPERIKSAAN AKHIR

SEMESTER / SESI : SEM II / 2008/2009
 MATA PELAJARAN : PRINCIPLE OF FINANCE

KURSUS : 1 BPA / BPB
 KOD MATAPELAJARAN: BPA1063

TABLE A-3 Future Value of \$1 at the End of n Periods

EQUATION:

FINANCIAL CALCULATOR KEYS:

$$FVIF_{i,n} = (1 + i)^n$$

n

i

1.0

0

NIPVPMTFVTABLE
VALUE

PERIOD	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%
1	1.0100	1.0200	1.0300	1.0400	1.0500	1.0600	1.0700	1.0800	1.0900	1.1000
2	1.0201	1.0404	1.0609	1.0816	1.1025	1.1236	1.1449	1.1664	1.1881	1.2100
3	1.0303	1.0612	1.0927	1.1249	1.1576	1.1910	1.2250	1.2597	1.2950	1.3310
4	1.0406	1.0824	1.1255	1.1699	1.2155	1.2625	1.3108	1.3605	1.4116	1.4641
5	1.0510	1.1041	1.1593	1.2167	1.2763	1.3382	1.4026	1.4693	1.5386	1.6105
6	1.0615	1.1262	1.1941	1.2653	1.3401	1.4185	1.5007	1.5869	1.6771	1.7716
7	1.0721	1.1487	1.2299	1.3159	1.4071	1.5036	1.6058	1.7138	1.8280	1.9487
8	1.0829	1.1717	1.2668	1.3686	1.4775	1.5938	1.7182	1.8509	1.9926	2.1436
9	1.0937	1.1951	1.3048	1.4233	1.5513	1.6895	1.8385	1.9990	2.1719	2.3579
10	1.1046	1.2190	1.3439	1.4802	1.6289	1.7908	1.9672	2.1589	2.3674	2.5937
11	1.1157	1.2434	1.3842	1.5395	1.7103	1.8983	2.1049	2.3316	2.5804	2.8531
12	1.1269	1.2682	1.4258	1.6010	1.7959	2.0122	2.2522	2.5182	2.8127	3.1384
13	1.1381	1.2936	1.4685	1.6651	1.8856	2.1329	2.4098	2.7196	3.0658	3.4523
14	1.1495	1.3195	1.5126	1.7317	1.9799	2.2609	2.5785	2.9372	3.3417	3.7975
15	1.1610	1.3459	1.5580	1.8009	2.0789	2.3966	2.7590	3.1722	3.6425	4.1772
16	1.1726	1.3728	1.6047	1.8730	2.1829	2.5404	2.9522	3.4259	3.9703	4.5950
17	1.1843	1.4002	1.6528	1.9479	2.2920	2.6928	3.1588	3.7000	4.3276	5.0545
18	1.1961	1.4282	1.7024	2.0258	2.4066	2.8543	3.3799	3.9960	4.7171	5.5599
19	1.2081	1.4568	1.7535	2.1068	2.5270	3.0256	3.6165	4.3157	5.1417	6.1159
20	1.2202	1.4859	1.8061	2.1911	2.6533	3.2071	3.8697	4.6630	5.6044	6.7273
21	1.2324	1.5157	1.8603	2.2788	2.7860	3.3996	4.1406	5.0338	6.1088	7.4002
22	1.2447	1.5460	1.9161	2.3699	2.9251	3.6035	4.4304	5.4365	6.6586	8.1403
23	1.2572	1.5769	1.9736	2.4647	3.0715	3.8197	4.7405	5.8715	7.2579	8.9543
24	1.2697	1.6084	2.0328	2.5633	3.2251	4.0489	5.0724	6.3412	7.9111	9.8497
25	1.2824	1.6406	2.0938	2.6658	3.3864	4.2919	5.4274	6.8485	8.6231	10.835
26	1.2953	1.6734	2.1566	2.7725	3.5557	4.5494	5.8074	7.3964	9.3992	11.918
27	1.3082	1.7069	2.2213	2.8834	3.7335	4.8223	6.2139	7.9881	10.245	13.110
28	1.3213	1.7410	2.2879	2.9987	3.9201	5.1117	6.6488	8.6271	11.167	14.421
29	1.3345	1.7758	2.3566	3.1187	4.1161	5.4184	7.1143	9.3173	12.172	15.863
30	1.3478	1.8114	2.4273	3.2434	4.3219	5.7435	7.6123	10.063	13.268	17.449
40	1.4889	2.2080	3.2620	4.8010	7.0400	10.286	14.974	21.725	31.409	45.259
50	1.6446	2.6916	4.3839	7.1067	11.467	18.420	29.457	46.902	74.358	117.39
60	1.8167	3.2810	5.8936	10.320	18.679	32.988	57.946	101.26	176.03	304.48

PEPERIKSAAN AKHIR

SEMESTER / SESI : SEM II / 2008/2009
 MATA PELAJARAN : PRINCIPLE OF FINANCE

KURSUS : I BPA / BPB
 KOD MATAPELAJARAN: BPA1063

TABLE A-3 continued

PERIOD	12%	14%	15%	16%	18%	20%	24%	28%	32%	36%
1	1.1200	1.1400	1.1500	1.1600	1.1800	1.2000	1.2400	1.2800	1.3200	1.3600
2	1.2544	1.2996	1.3225	1.3456	1.3924	1.4400	1.5376	1.6384	1.7424	1.8496
3	1.4049	1.4815	1.5209	1.5609	1.6430	1.7280	1.9066	2.0972	2.3000	2.5155
4	1.5735	1.6890	1.7490	1.8106	1.9388	2.0736	2.3642	2.6844	3.0360	3.4210
5	1.7623	1.9254	2.0114	2.1003	2.2878	2.4883	2.9316	3.4360	4.0075	4.6526
6	1.9738	2.1950	2.3131	2.4364	2.6906	2.9660	3.6152	4.3980	5.2899	6.3275
7	2.2107	2.5023	2.6600	2.8262	3.1855	3.5832	4.5077	5.6295	6.9826	8.6054
8	2.4760	2.8526	3.0590	3.2784	3.7589	4.2998	5.5895	7.2058	9.2170	11.703
9	2.7731	3.2519	3.5179	3.8030	4.4355	5.1598	6.9310	9.2234	12.166	15.917
10	3.1058	3.7072	4.0456	4.4114	5.2338	6.1917	8.5944	11.806	16.060	21.647
11	3.4785	4.2262	4.6524	5.1173	6.1759	7.4301	10.657	15.112	21.199	29.439
12	3.8960	4.8179	5.3503	5.9360	7.2876	8.9161	13.215	19.343	27.983	40.037
13	4.3635	5.4924	6.1528	6.8858	8.5994	10.699	16.386	24.759	36.937	54.451
14	4.8871	6.2613	7.0757	7.9875	10.147	12.839	20.319	31.691	48.757	74.053
15	5.4736	7.1379	8.1371	9.2655	11.974	15.407	25.196	40.565	64.359	100.71
16	6.1304	8.1372	9.3576	10.748	14.129	18.488	31.241	51.923	84.934	136.97
17	6.8660	9.2765	10.761	12.468	16.672	22.186	38.741	66.461	112.14	186.28
18	7.6900	10.575	12.375	14.461	19.673	26.623	48.039	85.071	148.02	253.34
19	8.6128	12.056	14.232	16.777	23.214	31.948	59.568	108.89	195.39	344.54
20	9.6463	13.743	16.367	19.461	27.393	38.338	73.864	139.38	257.92	468.57
21	10.804	15.668	18.822	22.574	32.324	46.005	91.592	178.41	340.45	637.26
22	12.100	17.861	21.645	26.186	38.342	55.206	113.57	228.36	449.39	866.67
23	13.552	20.362	24.891	30.376	45.008	66.247	140.81	292.30	593.20	1178.7
24	15.179	23.212	28.625	35.236	53.109	79.497	174.63	374.34	783.02	1603.0
25	17.000	26.462	32.919	40.874	62.669	95.396	216.54	478.90	1033.6	2180.1
26	19.040	30.167	37.857	47.414	73.949	114.48	268.51	613.00	1364.3	2964.9
27	21.325	34.390	43.535	55.000	87.260	137.37	332.95	784.64	1800.9	4032.3
28	23.884	39.204	50.066	63.800	102.97	164.84	412.86	1004.3	2377.2	5483.9
29	26.750	44.693	57.875	74.009	121.50	197.81	511.95	1285.6	3137.9	7458.1
30	29.960	50.950	66.232	85.850	143.37	237.38	634.82	1645.5	4142.1	10143.
40	93.051	188.88	267.86	378.72	750.38	1469.8	5455.9	19427.	66521.	*
50	289.00	700.21	1081.7	1670.7	3927.4	9100.4	46890.	*	*	*
60	897.60	2595.9	4384.0	7370.2	20555.	56348.	*	*	*	*

PEPERIKSAAN AKHIR

SEMESTER / SESI : SEM II / 2008/2009
MATA PELAJARAN : PRINCIPLE OF FINANCE

KURSUS : 1 BPA / BPB
KOD MATAPELAJARAN: BPA1063

TABLE A-4 Future Value of an Annuity of \$1 per Period for n Periods

EQUATION:

$$FVIFA_{i,n} = \sum_{t=1}^n (1+i)^{n-t} = \frac{(1+i)^n - 1}{i}$$

FINANCIAL CALCULATOR KEYS:

n i 0 1.0
N I PV PMT FV

TABLE
VALUE

NUMBER OF PERIODS	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%
1	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
3	3.0301	3.0604	3.0909	3.1216	3.1525	3.1836	3.2149	3.2464	3.2781	3.3100
4	4.0604	4.1216	4.1836	4.2465	4.3101	4.3746	4.4399	4.5061	4.5731	4.6410
5	5.1010	5.2040	5.3091	5.4163	5.5256	5.6371	5.7507	5.8666	5.9847	6.1051
6	6.1520	6.3081	6.4684	6.6330	6.8019	6.9751	7.1533	7.3359	7.5233	7.7156
7	7.2135	7.4343	7.6625	7.8983	8.1420	8.3938	8.6540	8.9228	9.2004	9.4872
8	8.2857	8.5830	8.8923	9.2142	9.5491	9.8975	10.260	10.637	11.028	11.436
9	9.3685	9.7546	10.159	10.583	11.027	11.491	11.978	12.488	13.021	13.579
10	10.462	10.950	11.464	12.006	12.578	13.181	13.816	14.487	15.193	15.937
11	11.567	12.169	12.808	13.486	14.207	14.972	15.784	16.645	17.560	18.531
12	12.683	13.412	14.192	15.026	15.917	16.870	17.888	18.977	20.141	21.384
13	13.809	14.680	15.618	16.627	17.713	18.882	20.141	21.495	22.953	24.523
14	14.947	15.974	17.086	18.292	19.599	21.015	22.550	24.215	26.019	27.975
15	16.097	17.293	18.599	20.024	21.579	22.276	25.129	27.152	29.361	31.772
16	17.258	18.639	20.157	21.825	23.657	25.673	27.888	30.324	33.003	35.950
17	18.430	20.012	21.762	23.698	25.840	28.213	30.840	33.750	36.974	40.545
18	19.615	21.412	23.414	25.645	28.132	30.906	33.909	37.450	41.301	45.599
19	20.811	22.841	25.117	27.671	30.539	33.760	37.379	41.446	46.018	51.159
20	22.019	24.297	26.870	29.778	33.066	36.786	40.995	45.762	51.160	57.275
21	23.239	25.781	28.676	31.969	35.719	39.993	44.865	50.421	56.765	64.002
22	24.472	27.299	30.537	34.248	38.505	43.392	49.006	55.457	62.873	71.403
23	25.716	28.845	32.453	36.618	41.430	46.996	53.436	60.893	69.532	79.543
24	26.973	30.422	34.426	39.083	44.502	50.816	58.177	66.765	76.790	88.497
25	28.241	32.030	36.459	41.646	47.727	54.865	63.249	73.106	84.701	98.347
26	29.526	33.671	38.553	44.312	51.183	59.356	68.676	79.954	93.324	109.18
27	30.821	35.344	40.710	47.084	54.669	63.706	74.484	87.351	102.72	121.10
28	32.129	37.051	42.931	49.968	58.401	68.528	80.698	95.339	112.97	134.21
29	33.450	38.792	45.219	52.966	62.523	73.640	87.347	103.97	124.14	148.63
30	34.785	40.568	47.575	56.085	66.839	79.058	94.461	113.28	136.31	164.49
40	48.886	60.402	75.401	95.026	120.80	154.76	199.64	259.06	337.88	442.59
50	64.463	84.579	112.80	152.67	209.35	290.34	406.53	573.77	815.08	1163.9
60	81.670	114.05	163.05	237.99	353.58	533.13	813.52	1253.2	1944.8	3034.8

PEPERIKSAAN AKHIR

SEMESTER / SESI : SEM II / 2008/2009
 MATA PELAJARAN : PRINCIPLE OF FINANCE

KURSUS : 1 BPA / BPB
 KOD MATAPELAJARAN: BPA1063

TABLE A-4 continued

NUMBER OF PERIODS	12%	14%	15%	16%	18%	20%	24%	28%	32%	36%
1	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
2	2.1200	2.1400	2.1500	2.1600	2.1800	2.2000	2.2400	2.2800	2.3200	2.3600
3	3.3744	3.4306	3.4725	3.5056	3.5724	3.6400	3.7776	3.9184	4.0624	4.2096
4	4.7793	4.9211	4.9934	5.0665	5.2154	5.3680	5.6842	6.0156	6.3624	6.7251
5	6.3528	6.6101	6.7424	6.8771	7.1542	7.4416	8.0484	8.6999	9.3983	10.146
6	8.1152	8.5355	8.7337	8.9775	9.4420	9.9299	10.980	12.136	13.406	14.799
7	10.089	10.730	11.067	11.414	12.142	12.916	14.615	16.534	18.696	21.126
8	12.300	13.233	13.727	14.290	15.327	16.499	19.123	22.163	25.678	29.732
9	14.776	16.085	16.786	17.519	19.086	20.799	24.712	29.169	34.895	41.435
10	17.549	19.337	20.304	21.321	23.521	25.959	31.643	38.593	47.062	57.352
11	20.655	23.045	24.349	25.733	28.755	32.150	40.238	50.398	63.122	78.998
12	24.133	27.271	29.002	30.850	34.931	39.581	50.895	65.510	84.320	108.44
13	28.029	32.089	34.352	36.786	42.219	48.497	64.110	84.853	112.30	148.47
14	32.393	37.581	40.505	43.672	50.818	59.196	80.496	109.61	149.24	202.93
15	37.280	43.842	47.580	51.660	60.965	72.035	100.82	141.30	198.00	276.98
16	42.753	50.980	55.717	60.925	72.939	87.442	126.01	181.87	262.36	377.69
17	48.884	59.118	65.075	71.673	87.068	105.93	157.25	233.79	347.31	514.66
18	55.750	68.394	75.836	84.141	103.74	128.12	195.99	300.25	459.45	700.94
19	63.440	78.969	88.212	98.603	123.41	154.74	244.03	385.32	607.47	954.28
20	72.052	91.025	102.44	115.38	146.63	186.69	303.60	494.21	802.86	1298.8
21	81.699	104.77	118.81	134.84	174.02	225.03	377.46	633.59	1060.8	1767.4
22	92.503	120.44	137.63	157.41	206.34	271.03	469.06	812.00	1401.2	2404.7
23	104.60	138.30	159.28	183.60	244.49	326.24	582.61	1040.4	1850.6	3271.3
24	118.16	158.66	184.17	213.98	289.49	392.48	723.48	1332.7	2443.8	4450.0
25	133.33	181.87	212.79	249.21	342.60	471.98	898.09	1706.8	3226.8	6053.0
26	150.33	208.33	245.71	290.09	405.27	567.38	1114.6	2185.7	4260.4	8233.1
27	169.37	238.50	283.57	337.50	479.22	681.85	1383.1	2798.7	5624.8	11198.0
28	190.70	272.89	327.10	392.30	566.48	819.22	1716.1	3583.3	7425.7	15230.3
29	214.58	312.09	377.17	456.30	669.45	984.07	2129.0	4587.7	9802.9	20714.2
30	241.33	356.79	434.75	530.31	790.95	1181.9	2640.9	5873.2	12941.	28172.3
40	767.09	1342.0	1779.1	2360.8	4163.2	7343.9	22729.	69377.	.	.
50	2400.0	4994.5	7217.7	10436.	21813.	45497.	.	.	.	.
60	7471.6	18535.	29220.	46058.	.	.	.	.	.	.