



UTHM

Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2019/2020**

COURSE NAME : BUSINESS FINANCIAL
MANAGEMENT

COURSE CODE : BPB 14203

PROGRAMME : BPB

EXAMINATION DATE : DECEMBER 2019 / JANUARY 2020

DURATION : 3 HOURS

INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF TEN (10) PAGES

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Q1 Magnet Square Sdn. Bhd. is a retail company. The trial balance at 31 August 2019 is as Table Q1:

Table Q1: Trial Balance for Magnet Square Sdn. Bhd. as at 31 August 2019

	RM	RM
Fixtures	4,000	
Patents	3,200	
Purchases	26,000	
Revenue		30,900
Rental expenses	4,400	
Wages and salaries expenses	1,600	
Tax payable		600
Miscellaneous expenses	340	
Drawings	1,000	
Bank overdraft		500
Motor vehicle	7,800	
Account receivable	610	
Account payable		1,000
Long-term loan		10,000
Cash	1,500	
Prepaid rent	550	
Capital		8,000
Total	51,000	51,000

Additional information:

- Inventory as at 31 August 2019 was RM9,100.
- Additional drawings of RM200 cash was made but not recorded.

Based on the given information in **Table Q1**, you are required to:

- Prepare a Statement of Profit and Loss for the year ending 31 August 2019. (10 marks)
- Prepare a Statement of Financial Position as at 31 August 2019. (12 marks)
- Differentiate between financial accounting and management accounting. (8 marks)

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Q2 (a) Sulaiman plans to invest RM20,000 in a bank where it will earn 8% interest compounded annually.

Compute the value of the investment at the end of:

(i) 5 years (2 marks)

(ii) 12 years (2 marks)

(b) Compute Sulaiman's saving's grow if the interest rate increases to 10%.

(i) 5 years (2 marks)

(ii) 12 years (2 marks)

(c) Natasya wishes to select the better of two 15-years annuities, namely Annuity Symetra and Annuity EdgePro. Annuity Symetra is an ordinary annuity of RM5,000 per year for 15 years. Annuity EdgePro is an annuity due of RM3,000 per year for 15 years.

Analyze the future value of both annuities, Symetra and EdgePro at the end of year 15, assuming that Amirah can earn:

(i) 8% annual interest (4 marks)

(ii) 12% annual interest. (4 marks)

(iii) The results of both annuities at the end of year 15 for **Q2(c)(i)** and **Q2(c)(ii)**. (2 marks)

(d) Annabell wants to borrow RM15,000 to be repaid in 6 equal payments at the end of each of the next 9 years. The interest rate that is paid to the lender is 5% on the outstanding portion of the loan. Calculate the annual payment of this loan. (2 marks)

(e) Determine the present value of a RM50,000 perpetuity discounted back to the present at 12%. (2 marks)

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- (f) Calculate the annual rate for the investment of RM3,000 to grow to RM5,775 in 5 years. (4 marks)
- (g) Sarah plans to deposit RM500 in an account earning 8% compounded semiannually. Compute the value accumulated in the account after 8 years. (4 marks)

Q3 **Table Q3** shows two mutually exclusive projects, Project A and B that are to be considered for future investment. The cost of capital or discounted rate use as a basis by the company is 8%.

Table Q3: Project Cash Flow

Capital outlay	Project A (RM)	Project B (RM)
	-100,000	-100,000
Year 1	15,000	35,000
Year 2	25,000	35,000
Year 3	35,000	35,000
Year 4	45,000	35,000
Year 5	50,000	35,000

- (a) Outline the:
- (i) Payback Period (PP) for each project. (5 marks)
- (ii) Net Present Value (NPV) for each project. (5 marks)
- (iii) Internal Rate of Return (IRR) for each project. (7 marks)
- (b) Explain which project should be accepted based on the above calculations. (3 marks)

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- Q4** (a) Explain **TWO (2)** advantages of using commercial paper. (5 marks)
- (b) ABC Sdn Bhd is considering to improve its present performance of working capital management. Historical data for the firm’s sales, account receivable, inventories and accounts payable are shown in **Table Q4 (b)**.

Table Q4 (b): Financial Information from ABC Sdn Bhd

Year/ Financial	2016 RM'000	2017 RM'000	2018 RM'000
Sales-Net	2,673	3,375	7,659
Receivables-Total	311	438	803
Accounts Payable	183	347	540
Inventories-Total	120	193	600
Cost of goods sold	1300	1600	3000

Analyze:

- (i) Days of sales outstanding for each of the three years. (3 marks)
- (ii) Days of sales in inventory for each of the three years. (3 marks)
- (iii) Cash conversion cycle for each of the three years. (3 marks)
- (iv) ABC Sdn Bhd overall present performance of working capital management. (6 marks)

- END OF QUESTIONS -

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$$FV_n = PV (1+i)^n$$

$$FV_n = PV (FVIF_{i,n})$$

$$PV = FV_n (PVIF_{i,n})$$

$$PVA_n = PMT (PVIFA_{i,n})$$

$$FVA_n = PMT (FVIFA_{i,n})$$

$$FVAD_n = PMT (FVIFA_{i,n}) (1+i)$$

$$PVAD_n = PMT (PVIFA_{i,n}) (1+i)$$

$$PMT = Loans / PVIFA_{i,n}$$

$$PV_{PP} = PP / i$$

$$CCC = DSO + DSI - DPO$$

$$APR = Interest / Principal \times 1/time$$

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	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	0.294	0.283	0.273	0.265	0.259	0.253
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	0.206	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	0.136
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	0.506	0.442	0.388	0.340	0.299	0.263	0.232	0.205	0.181	0.161	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	0.164	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
21	0.811	0.660	0.538	0.439	0.359	0.294	0.242	0.199	0.164	0.135	0.112	0.093	0.077	0.064	0.053	0.044	0.037	0.031	0.026	0.022
22	0.803	0.647	0.522	0.422	0.342	0.278	0.226	0.184	0.150	0.123	0.101	0.083	0.068	0.056	0.046	0.038	0.032	0.026	0.022	0.018
23	0.795	0.634	0.507	0.406	0.326	0.262	0.211	0.170	0.138	0.112	0.091	0.074	0.060	0.049	0.040	0.033	0.027	0.022	0.018	0.015
24	0.788	0.622	0.492	0.390	0.310	0.247	0.197	0.158	0.126	0.102	0.082	0.066	0.053	0.043	0.035	0.028	0.023	0.019	0.015	0.013
25	0.780	0.610	0.478	0.375	0.296	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
26	0.772	0.598	0.464	0.361	0.281	0.220	0.172	0.135	0.106	0.084	0.066	0.053	0.042	0.033	0.026	0.021	0.017	0.014	0.011	0.009
27	0.764	0.586	0.450	0.347	0.268	0.207	0.161	0.125	0.098	0.076	0.060	0.047	0.037	0.029	0.023	0.018	0.014	0.011	0.009	0.007
28	0.757	0.574	0.437	0.333	0.255	0.196	0.150	0.116	0.090	0.069	0.054	0.042	0.033	0.026	0.020	0.016	0.012	0.010	0.008	0.006
29	0.749	0.583	0.424	0.321	0.243	0.185	0.141	0.107	0.082	0.063	0.048	0.037	0.029	0.022	0.017	0.014	0.011	0.008	0.006	0.005
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
31	0.735	0.541	0.400	0.296	0.220	0.164	0.123	0.092	0.069	0.052	0.039	0.030	0.023	0.017	0.013	0.010	0.008	0.006	0.005	0.004
32	0.727	0.531	0.388	0.285	0.210	0.155	0.115	0.085	0.063	0.047	0.035	0.027	0.020	0.015	0.011	0.009	0.007	0.005	0.004	0.003
33	0.720	0.520	0.377	0.274	0.200	0.146	0.107	0.079	0.058	0.043	0.032	0.024	0.018	0.013	0.010	0.007	0.006	0.005	0.004	0.003
34	0.713	0.510	0.366	0.264	0.190	0.138	0.100	0.073	0.053	0.039	0.029	0.021	0.016	0.012	0.009	0.006	0.005	0.004	0.003	0.002
35	0.706	0.500	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	0.005	0.004	0.003	0.002
36	0.699	0.490	0.345	0.244	0.173	0.123	0.088	0.063	0.045	0.032	0.023	0.017	0.012	0.009	0.007	0.005	0.004	0.003	0.002	0.001
37	0.692	0.481	0.335	0.234	0.164	0.116	0.082	0.058	0.041	0.029	0.021	0.015	0.011	0.008	0.006	0.004	0.003	0.002	0.001	0.001
38	0.685	0.471	0.325	0.225	0.157	0.109	0.076	0.054	0.038	0.027	0.019	0.013	0.010	0.007	0.005	0.004	0.003	0.002	0.001	0.001
39	0.678	0.462	0.316	0.217	0.149	0.103	0.071	0.050	0.035	0.024	0.017	0.012	0.009	0.006	0.004	0.003	0.002	0.001	0.001	0.001
40	0.672	0.453	0.307	0.206	0.142	0.097	0.067	0.046	0.032	0.022	0.015	0.011	0.006	0.005	0.004	0.003	0.002	0.001	0.001	0.001

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1	0.990	0.980	0.971	0.962	0.962	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	1.970	1.942	1.913	1.885	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
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
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
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
6	5.795	5.601	5.417	5.242	5.076	4.917	4.767	4.623	4.480	4.355	4.231	4.111	4.023	3.889	3.784	3.685	3.589	3.498	3.410	3.326
7	6.728	6.472	6.230	6.002	5.796	5.582	5.389	5.206	5.034	4.968	4.712	4.564	4.423	4.288	4.160	4.039	3.922	3.812	3.706	3.605
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
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
10	9.471	8.963	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	4.669	4.494	4.339	4.192
11	10.368	9.787	9.253	8.760	8.306	7.887	7.493	7.139	6.808	6.496	6.207	5.938	5.687	5.453	5.234	5.029	4.836	4.656	4.486	4.327
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
13	12.134	11.348	10.635	9.986	9.384	8.833	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
14	13.004	12.106	11.296	10.563	9.800	9.295	8.745	8.244	7.786	7.387	6.982	6.628	6.302	6.002	5.724	5.468	5.229	5.008	4.802	4.611
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	5.564	5.405	5.162	4.938	4.730
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	5.964	5.668	5.405	5.162	4.938	4.730
17	15.582	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	6.047	5.749	5.475	5.222	4.990	4.775
18	16.396	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
19	17.226	15.678	14.324	13.134	12.085	11.158	10.336	9.604	8.950	8.366	7.839	7.366	6.938	6.550	6.196	5.877	5.584	5.316	5.070	4.843
20	18.046	16.351	14.877	13.590	12.462	11.470	10.594	9.818	9.129	8.514	7.963	7.489	7.025	6.623	6.259	5.929	5.628	5.363	5.101	4.870
21	18.857	17.011	15.415	14.029	12.821	11.764	10.836	10.017	9.292	8.649	8.075	7.562	7.102	6.743	6.359	6.011	5.696	5.410	5.149	4.909
22	19.660	17.658	15.937	14.451	13.163	12.042	11.061	10.201	9.442	8.772	8.176	7.645	7.170	6.743	6.399	6.044	5.723	5.432	5.167	4.925
23	20.456	18.292	16.444	14.857	13.499	12.303	11.272	10.371	9.580	8.883	8.266	7.718	7.230	6.792	6.399	6.044	5.723	5.432	5.167	4.925
24	21.243	18.914	16.936	15.247	13.799	12.550	11.469	10.529	9.707	8.965	8.348	7.784	7.283	6.835	6.434	6.073	5.746	5.451	5.182	4.937
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	6.885	6.464	6.097	5.766	5.467	5.195	4.948
26	22.795	20.121	17.877	15.963	14.375	13.003	11.826	10.810	9.929	9.161	8.488	7.896	7.372	6.906	6.491	6.118	5.783	5.480	5.206	4.956
27	23.560	20.707	18.327	16.330	14.643	13.211	11.987	10.935	10.027	9.237	8.546	7.943	7.409	6.935	6.541	6.152	5.810	5.502	5.223	4.970
28	24.316	21.281	18.764	16.663	14.996	13.406	12.137	11.051	10.116	9.307	8.602	7.984	7.441	6.961	6.551	6.166	5.820	5.510	5.229	4.975
29	25.066	21.844	19.188	16.984	15.141	13.591	12.278	11.158	10.198	9.370	8.650	8.022	7.470	6.983	6.566	6.177	5.829	5.517	5.236	4.982
30	25.806	22.396	19.800	17.292	15.372	13.765	12.409	11.258	10.274	9.427	8.694	8.055	7.496	7.003	6.566	6.187	5.837	5.523	5.239	4.982
31	26.542	22.938	20.000	17.588	15.593	13.929	12.532	11.350	10.343	9.479	8.733	8.085	7.518	7.020	6.579	6.196	5.844	5.528	5.243	4.965
32	27.270	23.468	20.389	17.874	15.803	14.084	12.647	11.435	10.406	9.526	8.769	8.112	7.538	7.035	6.591	6.196	5.844	5.528	5.243	4.965
33	27.990	23.989	20.766	18.148	16.003	14.230	12.754	11.514	10.464	9.569	8.801	8.135	7.556	7.048	6.600	6.203	5.846	5.532	5.246	4.985
34	28.703	24.499	21.132	18.411	16.193	14.368	12.854	11.587	10.518	9.609	8.829	8.157	7.572	7.060	6.609	6.210	5.854	5.536	5.249	4.990
35	29.409	24.999	21.487	18.665	16.374	14.498	12.948	11.655	10.587	9.677	8.855	8.176	7.588	7.070	6.617	6.215	5.858	5.539	5.251	4.992
36	30.108	25.489	21.832	18.908	16.547	14.621	13.035	11.717	10.612	9.744	8.879	8.192	7.598	7.079	6.623	6.220	5.882	5.541	5.253	4.994
37	30.800	25.969	22.167	19.143	16.711	14.737	13.117	11.775	10.653	9.706	8.900	8.208	7.609	7.087	6.629	6.224	5.865	5.543	5.255	4.994
38	31.485	26.441	22.492	19.368	16.968	14.846	13.193	11.829	10.691	9.733	8.919	8.211	7.618	7.094	6.634	6.228	5.867	5.545	5.256	4.995
39	32.163	26.903	22.808	19.584	17.017	14.949	13.265	11.879	10.726	9.757	8.936	8.233	7.627	7.106	6.638	6.231	5.869	5.547	5.257	4.996
40	32.835	27.355	23.115	19.793	17.169	15.046	13.332	11.925	10.757	9.779	8.961	8.244	7.634	7.106	6.642	6.233	5.871	5.548	5.258	4.997

FINAL EXAMINATION

SEMESTER/SESSION: SEM I/2019-2020

PROGRAMME CODE: BPB

COURSE NAME: BUSINESS FINANCIAL MANAGEMENT

COURSE CODE: BPB 14203

Future Value Tabl	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	1.606	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	1.218	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	10.669
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
21	1.232	1.516	1.860	2.279	2.786	3.400	4.141	5.034	6.109	7.400	8.949	10.804	13.021	15.668	18.822	22.574	27.034	32.324	38.591	46.005
22	1.245	1.546	1.916	2.370	2.925	3.604	4.430	5.437	6.659	8.140	9.934	12.100	14.714	17.861	21.645	26.186	31.629	38.142	45.923	55.206
23	1.257	1.577	1.974	2.465	3.072	3.820	4.741	5.871	7.258	8.954	11.026	13.552	16.627	20.362	24.891	30.376	37.006	45.008	54.649	66.247
24	1.270	1.608	2.033	2.563	3.225	4.049	5.072	6.341	7.911	9.850	12.239	15.179	18.788	23.212	28.625	35.236	43.297	53.109	65.032	79.497
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
26	1.295	1.673	2.157	2.772	3.556	4.549	5.807	7.396	9.399	11.918	15.080	19.040	23.991	30.167	37.857	47.414	59.270	73.949	92.092	114.475
27	1.308	1.707	2.221	2.883	3.733	4.822	6.214	7.988	10.245	13.110	16.739	21.325	27.109	34.390	43.535	55.000	69.345	87.260	109.589	137.371
28	1.321	1.741	2.288	2.999	3.920	5.112	6.649	8.627	11.167	14.421	18.580	23.884	30.633	39.204	50.066	63.800	81.134	102.967	130.411	164.845
29	1.335	1.776	2.357	3.119	4.116	5.418	7.114	9.317	12.172	15.863	20.624	26.750	34.616	44.693	57.575	74.009	94.927	121.501	155.189	197.814
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
31	1.361	1.848	2.500	3.373	4.538	6.088	8.145	10.868	14.462	19.194	25.410	33.555	44.201	58.083	76.144	99.586	129.946	169.177	219.764	284.852
32	1.375	1.885	2.575	3.508	4.765	6.453	8.715	11.737	15.763	21.144	28.206	37.582	49.947	66.215	87.565	115.520	152.036	199.629	261.519	341.822
33	1.389	1.922	2.652	3.648	5.003	6.841	9.325	12.676	17.182	23.225	31.308	42.092	56.440	75.485	100.700	134.003	177.883	235.563	311.207	410.186
34	1.403	1.961	2.732	3.794	5.253	7.251	9.978	13.690	18.728	25.548	34.575	47.443	63.777	86.053	115.805	155.443	208.123	277.964	370.337	492.224
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
36	1.431	2.040	2.898	4.104	5.792	8.147	11.478	15.968	22.251	30.913	42.818	59.136	81.437	111.834	153.152	209.164	284.899	387.037	524.434	708.802
37	1.445	2.081	2.985	4.268	6.081	8.636	12.224	17.246	24.254	34.004	47.528	66.232	92.024	127.491	176.125	242.631	333.332	456.703	624.076	850.562
38	1.460	2.122	3.075	4.439	6.385	9.154	13.079	18.625	26.437	37.404	52.756	74.180	103.987	145.340	202.543	281.452	389.998	538.910	742.651	1020.675
39	1.474	2.165	3.167	4.616	6.705	9.704	13.995	20.115	28.816	41.145	58.559	83.081	117.506	165.687	232.925	326.484	456.298	635.914	883.754	1224.810
40	1.489	2.208	3.262	4.801	7.040	10.286	14.947	21.725	31.409	45.259	65.001	93.051	132.782	188.884	267.864	378.721	533.869	750.378	1051.668	1469.772

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FINAL EXAMINATION

SEMESTER/SESSION: SEM I/2019-2020

PROGRAMME CODE: BPB

COURSE NAME: BUSINESS FINANCIAL MANAGEMENT

COURSE CODE: BPB 14203

Future Value of an Annuity Table

	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%	16%	17%	18%	19%	20%
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	9.241	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	11.207	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	12.109	12.688	13.306	13.966	14.670	15.420	16.218	17.066	17.965	18.917	19.925	20.993	22.124	23.320	24.584	25.918	27.324	28.805	30.404
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	17.295	18.599	20.024	21.579	23.276	25.129	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	25.840	28.213	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	105.931
18	19.615	21.412	23.414	25.645	28.132	30.906	33.999	37.450	41.301	45.599	50.396	55.750	61.725	68.394	75.836	84.141	93.406	103.740	115.266	128.117
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	110.285	123.414	138.166	154.740
20	22.019	24.297	26.870	29.778	33.066	36.786	40.995	45.762	51.160	57.275	64.203	72.052	80.947	91.025	102.444	115.380	130.033	146.628	165.418	186.688
21	23.239	25.783	28.676	31.969	35.719	39.993	44.865	50.423	56.765	64.002	72.265	81.699	92.470	104.768	118.810	134.841	153.139	174.021	197.847	225.026
22	24.472	27.209	30.537	34.248	38.505	43.392	49.006	55.457	62.873	71.403	81.214	92.501	105.491	120.436	137.632	157.415	180.172	206.345	236.438	271.031
23	25.716	28.845	32.453	36.618	41.430	46.996	53.436	60.893	69.532	79.543	91.148	104.603	120.205	138.297	159.276	183.601	211.801	244.487	282.362	326.237
24	26.973	30.422	34.426	39.083	44.502	50.816	58.177	66.765	76.700	88.497	102.174	118.155	136.831	158.659	184.168	213.978	248.808	289.494	337.010	392.484
25	28.243	32.030	36.459	41.646	47.727	54.865	63.249	73.106	84.701	98.347	114.413	133.334	155.620	181.871	212.793	249.214	292.105	342.063	402.042	471.981
26	29.526	33.671	38.553	44.312	51.413	59.156	68.676	79.954	93.324	109.182	127.999	150.334	176.850	208.333	245.712	290.088	342.763	405.272	479.431	567.377
27	30.821	35.344	40.710	47.084	54.669	63.706	74.488	87.351	102.723	121.100	143.079	169.374	200.841	238.499	283.569	337.502	402.032	479.221	571.522	681.853
28	32.129	37.051	42.931	49.968	58.403	68.528	80.698	95.339	112.968	134.210	159.817	190.699	227.950	272.889	327.104	392.503	471.378	566.481	681.112	819.223
29	33.450	38.792	45.219	52.966	62.323	73.640	87.347	103.966	124.135	148.631	178.397	214.583	258.583	312.094	377.170	456.303	552.512	669.447	811.523	984.068
30	34.785	40.568	47.575	56.085	66.439	79.058	94.461	113.283	136.308	164.404	199.021	241.333	293.199	356.787	434.745	530.312	647.439	790.948	966.712	1181.882
31	36.133	42.379	50.003	59.328	70.761	84.802	102.073	123.346	149.575	181.943	221.913	271.293	332.315	407.737	500.957	616.162	758.504	934.319	1151.387	1419.258
32	37.494	44.227	52.503	62.701	75.299	90.890	110.218	134.214	164.037	201.138	247.324	304.848	376.516	465.820	577.100	715.747	888.449	1103.496	1371.115	1704.109
33	38.869	46.112	55.078	66.210	80.064	97.343	118.933	145.951	179.800	222.252	275.529	342.429	426.463	532.035	664.666	831.267	1040.486	1303.125	1632.670	2045.931
34	40.258	48.034	57.730	69.858	85.067	104.184	128.259	159.627	196.982	245.477	306.837	384.521	482.903	607.520	765.365	965.270	1218.368	1538.688	1943.877	2456.118
35	41.660	49.994	60.462	73.652	90.320	111.435	138.233	173.317	215.711	271.024	341.590	431.663	546.681	693.573	881.170	1120.713	1426.491	1816.652	2314.214	2948.341
36	43.077	51.994	63.276	77.598	95.836	119.121	148.931	187.102	236.125	299.127	380.164	484.463	618.749	791.673	1014.346	1301.027	1669.994	2144.649	2754.914	3539.009
37	44.508	54.034	66.174	81.702	101.628	127.268	160.337	203.070	258.376	330.039	422.982	543.599	700.187	903.507	1167.498	1512.191	1954.894	2531.686	3279.348	4247.811
38	45.953	56.115	69.159	85.970	107.710	135.904	172.561	220.316	282.630	364.048	470.511	609.831	792.211	1030.998	1343.622	1752.822	2288.225	2988.389	3903.424	5098.373
39	47.412	58.237	72.234	90.409	114.095	145.058	185.640	238.941	309.066	401.443	523.267	684.010	896.198	1176.338	1546.165	2034.273	2678.224	3527.299	4646.075	6119.048
40	48.886	60.402	75.401	95.026	120.800	154.762	199.635	259.057	337.882	442.593	581.826	767.091	1013.704	1342.025	1779.090	2360.757	3134.522	4163.213	5529.829	7343.858