



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2021/2022**

COURSE NAME : FINANCIAL MANAGEMENT
COURSE CODE : MPA 10703
PROGRAMME CODE : MPA
EXAMINATION DATE : JANUARY / FEBRUARY 2022
DURATION : 3 HOURS
INSTRUCTION :

- 1. ANSWER ALL QUESTIONS**
- 2. THIS FINAL EXAMINATION IS AN ONLINE ASSESSMENT AND CONDUCTED VIA CLOSED BOOK**

THIS QUESTION PAPER CONSISTS OF TEN (10) PAGES

Q1 (a) Describe bond valuation relationships with the following:

- (i) Yield to maturity (3marks)
- (ii) Par value (3 marks)
- (iii) Maturity date (3 marks)

(b) You have finally saved RM8,000 and are ready to make your first investment. You have the following three alternatives for investing that money:

Alternative 1: WestEnd City bonds, which have a par value of RM1,000 and a coupon interest rate of 8.5 percent, are selling for RM1,280 and will mature in 10 years.

Alternative 2: Unicorn Pro preferred stock is paying a dividend of RM2.00 and selling for RM35.50.

Alternative 3: ABC Electronic common stock is selling for RM15.50. ABC earned RM2 per share. The stock is recently paid a RM0.80 dividend, and retained the remaining RM1.20 to invest in new projects with an expected return on equity (ROE) of 15 percent.

Your required rates of return for these investments are 5 percent for the bond, 6 percent for the preferred stock, and 14 percent for the common stock.

- (i) Compute the value of each investment based on your required rate of return. (9 marks)
- (ii) Justify which investment you would select. (4 marks)
- (iii) Assume ABC Electronic's managers expect a downturn in earnings that results in a 7 percent decrease in growth.
Compute how these changes in forecast would affect your answers in Q1(b)(i) and Q1(b)(ii). (6 marks)
- (iv) Determine the required rates of return that would make you indifferent to all three options. (9 marks)

- Q2 (a)** You are considering two independent projects, Project A and Project B. The initial cash outlays associated with Project A and B is RM60,000. The discount rate on both projects is 12 percent. The expected annual cash flows from each project are shown in **Table Q2(a)**.

Determine:

- (i) The Payback Period (PP) for each project. (6 marks)
 - (ii) The Net Present Value (NPV) for each project. (9 marks)
 - (iii) The Internal Rate of Return (IRR) for each project. (10 marks)
 - (iv) Which project should be accepted? (3 marks)
- (b)** Describe **ONE (1)** advantage and **ONE (1)** disadvantage of using Net Present Value (NPV) and Internal Rate of Return (IRR) in evaluating investment opportunities. (8 marks)

- Q3 (a)** Brendan is working as a consultant to the Rainbow Clothing Company, and he has been asked to compute the appropriate discount rate (or weighted capital cost of capital) to use in the evaluation of the purchase of a new warehouse facility. Brendan has determined the market value of the firm's current capital structure (in which the firm considers to be its target mix of financing sources) as shown in **Table Q3 (a)**:

To finance the purchase:

1. Rainbow Clothing will sell 20-year bonds with a 1,000 par value paying 7 percent per year (with interest paid semiannually) at the market price of RM1,080.
2. Preferred stock paying a RM2.80 dividend can be sold for RM38.
3. Common stock for Rainbow Clothing is currently selling for RM52 per share. The firm paid a RM4 dividend last year and expects dividend to continue growing at a rate of 4 percent per year for the indefinite future.
4. The firm's marginal tax rate is 34 percent.

- (i) Compute the capital structure weights of each financing source. (6 marks)

- (ii) Compute the weighted average cost of capital (WACC) should Brendan use to evaluate the warehouse project.
(14 marks)
 - (iii) Conclude on the value that the firm should take based on your calculation in Q4(a)(ii).
(4 marks)
- (b) Explain the principle of self-liquidating debt as a tool for managing firm liquidity.
(3 marks)

- END OF QUESTIONS -

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Table Q2 (a): Expected Annual Cash Flows for Project A and Project B

Year	Project A	Project B
0	RM (60,000)	RM (60,000)
1	11,000	15,000
2	12,000	15,000
3	13,000	15,000
4	14,000	15,000
5	15,000	15,000
6	16,000	15,000

Table Q3 (a): Market Value of Financing Sources

Source of capital	Market Value
Bonds	RM350,000
Preferred stock	RM150,000
Common stock	RM500,000



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$*FV_n = AMT (1+i)^n$ or $AMT (FVIF_{i,n})$

**You may use this formula to find growth rate (g) as well i.e. finding i.*

$PV = AMT (1+i)^{-n}$ or $AMT (PVIF_{i,n})$

$FVA = AMT (FVIFA_{i,n})$

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

$PVA = AMT (PVIFA_{i,n})$

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

$NPV = \sum_{t=1}^n \frac{FCF_t}{(1+k)^t} - IO$

$PI = \frac{\sum_{t=1}^n \frac{FCF_t}{(1+k)^t}}{IO}$

$IRR = IRR_1 + \left[\frac{PV_1 - IO}{PV_1 - PV_2} \times (IRR_2 - IRR_1) \right]$

$V_b = \$I_t (PVIFA_{k,n}) + \$M (PVIF_{k,n})$

$V_b = \sum_{t=1}^n \frac{\$I_t}{(1+k_b)^t} + \frac{\$M}{(1+k_b)^n}$

$V_{ps} = \frac{D}{k_{ps}}$

$V_{cs} = \frac{D_1}{k_{cs} - g}$

$V_{cs} = \frac{D_1}{(1+k_{cs})} + \frac{P_1}{(1+k_{cs})}$

$*k_d = \frac{C + \frac{Par - Net Price}{n}}{\frac{Par + Net Price}{2}}$

** Bondholder's Expected Rate of Return*

Preferred Stockholder's Expected Return

$= D / MP$

= Annual dividend/market price

Common Stockholder's Expected Return

= Dividend yield + Dividend growth rate

$= (D_1 / MP) + g$

= (Dividend in year 1/market price) + Dividend growth rate

After-tax cost of debt = $k_d (1 - T)$

$K_{ps} = \frac{D}{NP}$

$\bar{k}_{cs} = \frac{D_1}{P_0} + g$

$k_{ncs} = \frac{D_1}{NP_{cs}} + g$

$k_{wacc} = w_d k_d (1 - T_e) + w_{ps} k_{ps} + w_{ncs} k_{ncs}$

$k_i = k_{rf} + \beta_i (k_m - k_{rf})$

$\bar{k} = \sum_{i=1}^n k_i P(k_i)$

$\sigma = \sqrt{\sum_{i=1}^n (k_i - \bar{k})^2 P(k_i)}$

$APR = \frac{\text{Interest}}{\text{Principle} \times \text{Time}} \text{ or } \frac{\text{Interest}}{\text{Principle}} \times \frac{1}{\text{Time}}$

$APY = \left[1 + \frac{i}{m} \right]^m - 1$

$PV(\text{annuity due}) = PMT \left[1 - \frac{1}{\frac{(1+i)^n}{i}} \right] (1+i)$

$FV_n(\text{annuity due}) = PMT \left[\frac{(1+i)^n - 1}{i} \right] (1+i)$

Bond Value = Interest $\left[1 - \frac{1}{\frac{(1+YTM_{\text{Market}})^n}{YTM_{\text{Market}}}} \right] + \text{Principal} \left[\frac{1}{(1+YTM_{\text{Market}})^n} \right]$

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Future Value Table

	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%	16%	17%	18%	19%	20%
1	1.0100	1.0200	1.0300	1.0400	1.0500	1.0600	1.0700	1.0800	1.0900	1.1000	1.1100	1.1200	1.1300	1.1400	1.1500	1.1600	1.1700	1.1800	1.1900	1.2000
2	1.0200	1.0400	1.0601	1.0822	1.1033	1.1244	1.1455	1.1666	1.1888	1.2100	1.2322	1.2544	1.2777	1.3000	1.3233	1.3466	1.3699	1.3922	1.4146	1.4400
3	1.0300	1.0601	1.0903	1.1206	1.1510	1.1813	1.2117	1.2420	1.2724	1.3028	1.3332	1.3636	1.3940	1.4244	1.4548	1.4852	1.5156	1.5460	1.5764	1.6074
4	1.0401	1.0822	1.1246	1.1671	1.2096	1.2521	1.2946	1.3371	1.3796	1.4221	1.4646	1.5071	1.5496	1.5921	1.6346	1.6771	1.7196	1.7621	1.8046	1.8474
5	1.0501	1.1044	1.1589	1.2134	1.2679	1.3224	1.3769	1.4314	1.4859	1.5404	1.5949	1.6494	1.7039	1.7584	1.8129	1.8674	1.9219	1.9764	2.0309	2.0854
6	1.0602	1.1266	1.1944	1.2622	1.3300	1.3978	1.4656	1.5334	1.6012	1.6690	1.7368	1.8046	1.8724	1.9402	2.0080	2.0758	2.1436	2.2114	2.2792	2.3474
7	1.0702	1.1499	1.2300	1.3106	1.3912	1.4718	1.5524	1.6330	1.7136	1.7942	1.8748	1.9554	2.0360	2.1166	2.1972	2.2778	2.3584	2.4390	2.5196	2.6004
8	1.0803	1.1722	1.2647	1.3579	1.4510	1.5441	1.6372	1.7303	1.8234	1.9165	2.0096	2.1027	2.1958	2.2889	2.3820	2.4751	2.5682	2.6613	2.7544	2.8474
9	1.0904	1.1955	1.3010	1.4071	1.5132	1.6193	1.7254	1.8315	1.9376	2.0437	2.1498	2.2559	2.3620	2.4681	2.5742	2.6803	2.7864	2.8925	2.9986	3.1047
10	1.1005	1.2188	1.3444	1.4800	1.6256	1.7712	1.9168	2.0624	2.2080	2.3536	2.4992	2.6448	2.7904	2.9360	3.0816	3.2272	3.3728	3.5184	3.6640	3.8096
11	1.1106	1.2433	1.3844	1.5359	1.6974	1.8589	2.0204	2.1819	2.3434	2.5049	2.6664	2.8279	2.9894	3.1509	3.3124	3.4739	3.6354	3.7969	3.9584	4.1199
12	1.1207	1.2688	1.4266	1.6001	1.7836	1.9671	2.1506	2.3341	2.5176	2.7011	2.8846	3.0681	3.2516	3.4351	3.6186	3.8021	3.9856	4.1691	4.3526	4.5361
13	1.1308	1.2944	1.4699	1.6655	1.8700	2.0845	2.2990	2.5135	2.7280	2.9425	3.1570	3.3715	3.5860	3.8005	4.0150	4.2295	4.4440	4.6585	4.8730	5.0875
14	1.1409	1.3199	1.5133	1.7318	1.9603	2.1988	2.4373	2.6758	2.9143	3.1528	3.3913	3.6298	3.8683	4.1068	4.3453	4.5838	4.8223	5.0608	5.2993	5.5378
15	1.1510	1.3456	1.5588	1.8013	2.0598	2.3283	2.5968	2.8653	3.1338	3.4023	3.6708	3.9393	4.2078	4.4763	4.7448	5.0133	5.2818	5.5503	5.8188	6.0873
16	1.1611	1.3713	1.6085	1.8744	2.1549	2.4434	2.7319	3.0204	3.3089	3.5974	3.8859	4.1744	4.4629	4.7514	5.0399	5.3284	5.6169	5.9054	6.1939	6.4824
17	1.1712	1.3970	1.6652	1.9579	2.2624	2.5709	2.8794	3.1879	3.4964	3.8049	4.1134	4.4219	4.7304	5.0389	5.3474	5.6559	5.9644	6.2729	6.5814	6.8899
18	1.1813	1.4228	1.7202	2.0266	2.3401	2.6636	2.9871	3.3106	3.6341	3.9576	4.2811	4.6046	4.9281	5.2516	5.5751	5.8986	6.2221	6.5456	6.8691	7.1926
19	1.1914	1.4485	1.7754	2.1077	2.5277	3.0262	3.5247	4.0232	4.5217	5.0202	5.5187	6.0172	6.5157	7.0142	7.5127	8.0112	8.5097	9.0082	9.5067	10.0052
20	1.2015	1.4742	1.8306	2.1911	2.6331	3.1816	3.7301	4.2786	4.8271	5.3756	5.9241	6.4726	7.0211	7.5696	8.1181	8.6666	9.2151	9.7636	10.3121	10.8606
21	1.2116	1.5000	1.8860	2.2796	2.7536	3.3421	3.9306	4.5191	5.1076	5.6961	6.2846	6.8731	7.4616	8.0501	8.6386	9.2271	9.8156	10.4041	10.9926	11.5811
22	1.2217	1.5258	1.9416	2.3706	2.8766	3.5011	4.1291	4.7176	5.3061	5.8946	6.4831	7.0716	7.6601	8.2486	8.8371	9.4256	10.0141	10.6026	11.1911	11.7796
23	1.2318	1.5516	1.9972	2.4636	3.0226	3.6946	4.3176	4.9061	5.4946	6.0831	6.6716	7.2601	7.8486	8.4371	9.0256	9.6141	10.2026	10.7911	11.3796	11.9681
24	1.2419	1.5774	2.0528	2.5576	3.1746	3.8981	4.4961	5.0846	5.6731	6.2616	6.8501	7.4386	8.0271	8.6156	9.2041	9.7926	10.3811	10.9696	11.5581	12.1466
25	1.2520	1.6032	2.1094	2.6526	3.3266	4.0421	4.6306	5.2191	5.8076	6.3961	6.9846	7.5731	8.1616	8.7501	9.3386	9.9271	10.5156	11.1041	11.6926	12.2811
26	1.2621	1.6290	2.1710	2.7586	3.4806	4.2061	4.7946	5.3831	5.9716	6.5601	7.1486	7.7371	8.3256	8.9141	9.5026	10.0911	10.6796	11.2681	11.8566	12.4446
27	1.2722	1.6548	2.2326	2.8656	3.6346	4.3701	4.9586	5.5561	6.1446	6.7331	7.3216	7.9101	8.4986	9.0871	9.6756	10.2641	10.8526	11.4411	12.0296	12.6211
28	1.2823	1.6806	2.2942	2.9736	3.7886	4.5346	5.1226	5.7001	6.2886	6.8771	7.4656	8.0541	8.6426	9.2311	9.8196	10.4081	10.9966	11.5851	12.1746	12.7666
29	1.2924	1.7064	2.3558	3.0826	3.9426	4.6986	5.2866	5.8746	6.4631	7.0516	7.6401	8.2286	8.8171	9.4056	9.9941	10.5826	11.1711	11.7596	12.3446	12.9346
30	1.3025	1.7322	2.4174	3.1916	4.1006	4.8626	5.4446	6.0331	6.6216	7.2101	7.7986	8.3871	8.9756	9.5641	10.1526	10.7411	11.3296	11.9181	12.5066	13.0946
31	1.3126	1.7580	2.4780	3.3006	4.2586	5.0266	5.6066	6.1951	6.7836	7.3721	7.9606	8.5491	9.1376	9.7261	10.3146	10.9031	11.4916	12.0806	12.6686	13.2566
32	1.3227	1.7838	2.5386	3.4096	4.4166	5.1886	5.7686	6.3561	6.9446	7.5331	8.1216	8.7101	9.2986	9.8871	10.4756	11.0641	11.6526	12.2446	12.8326	13.4246
33	1.3328	1.8096	2.5992	3.5186	4.5746	5.3506	5.9306	6.5186	7.1071	7.6956	8.2841	8.8726	9.4611	10.0496	10.6381	11.2266	11.8151	12.4036	12.9916	13.5796
34	1.3429	1.8354	2.6598	3.6276	4.7326	5.5126	6.0926	6.6766	7.2651	7.8536	8.4421	9.0306	9.6191	10.2076	10.7961	11.3846	11.9731	12.5616	13.1596	13.7516
35	1.3530	1.8612	2.7204	3.7366	4.8906	5.6746	6.2546	6.8346	7.4231	8.0116	8.6001	9.1886	9.7771	10.3656	10.9541	11.5426	12.1311	12.7196	13.3076	13.8956
36	1.3631	1.8870	2.7810	3.8456	5.0486	5.8366	6.4166	7.0051	7.5936	8.1821	8.7706	9.3591	9.9476	10.5361	11.1246	11.7131	12.3016	12.8901	13.4786	14.0666
37	1.3732	1.9128	2.8416	3.9546	5.2066	6.0006	6.5786	7.1666	7.7551	8.3436	8.9321	9.5206	10.1091	10.6976	11.2861	11.8746	12.4631	13.0516	13.6396	14.2246
38	1.3833	1.9386	2.9022	4.0636	5.3646	6.1626	6.7306	7.3286	7.9171	8.5056	9.0941	9.6826	10.2711	10.8601	11.4486	12.0361	12.6246	13.2131	13.8016	14.3866
39	1.3934	1.9644	2.9628	4.1726	5.5226	6.3246	6.8926	7.4906	8.0791	8.6676	9.2561	9.8446	10.4361	11.0261	11.6146	12.2061	12.7946	13.3831	13.9716	14.5566
40	1.4035	1.9902	3.0234	4.2816	5.6806	6.4866	7.0546	7.6526	8.2376	8.8261	9.4146	10.0031	10.5916	11.1826	11.7711	12.3661	12.9546	13.5431	14.1346	14.7246

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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	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
2	2.0100	2.0400	2.0600	2.0800	2.0900	2.1000	2.1100	2.1200	2.1300	2.1400	2.1500	2.1600	2.1700	2.1800	2.1900	2.2000	2.2100	2.2200	2.2300	2.2400
3	3.0300	3.0600	3.0900	3.1200	3.1500	3.1800	3.2100	3.2400	3.2700	3.3000	3.3300	3.3600	3.3900	3.4200	3.4500	3.4800	3.5100	3.5400	3.5700	3.6000
4	4.0600	4.1200	4.1800	4.2400	4.3000	4.3700	4.4400	4.5100	4.5800	4.6500	4.7200	4.7900	4.8600	4.9300	5.0000	5.0700	5.1400	5.2100	5.2800	5.3500
5	5.1000	5.2000	5.3000	5.4100	5.5200	5.6300	5.7400	5.8600	5.9800	6.1000	6.2200	6.3500	6.4800	6.6100	6.7400	6.8700	7.0100	7.1400	7.2700	7.4100
6	6.1500	6.3000	6.4600	6.6300	6.8000	6.9700	7.1500	7.3400	7.5300	7.7200	7.9100	8.1100	8.3100	8.5100	8.7100	8.9100	9.1200	9.3300	9.5400	9.7500
7	7.2100	7.4300	7.6600	7.8900	8.1200	8.3500	8.5900	8.8300	9.0700	9.3100	9.5500	9.8000	10.0500	10.3000	10.5500	10.8000	11.0600	11.3200	11.5800	11.8400
8	8.2800	8.5300	8.7900	9.0500	9.3100	9.5700	9.8400	10.1100	10.3800	10.6500	10.9200	11.2000	11.4800	11.7600	12.0400	12.3200	12.6100	12.9000	13.1900	13.4800
9	9.3600	9.7500	10.1500	10.5500	10.9500	11.3500	11.7500	12.1500	12.5500	12.9500	13.3500	13.7500	14.1500	14.5500	14.9500	15.3500	15.7500	16.1500	16.5500	16.9500
10	10.4600	10.9500	11.4400	11.9300	12.4200	12.9100	13.4000	13.8900	14.3800	14.8700	15.3600	15.8500	16.3400	16.8300	17.3200	17.8100	18.3000	18.7900	19.2800	19.7700
11	11.5600	12.1600	12.7600	13.3600	13.9600	14.5600	15.1600	15.7600	16.3600	16.9600	17.5600	18.1600	18.7600	19.3600	19.9600	20.5600	21.1600	21.7600	22.3600	22.9600
12	12.6800	13.4100	14.1400	14.8700	15.6000	16.3300	17.0600	17.7900	18.5200	19.2500	19.9800	20.7100	21.4400	22.1700	22.9000	23.6300	24.3600	25.0900	25.8200	26.5500
13	13.8000	14.6000	15.4000	16.2000	17.0000	17.8000	18.6000	19.4000	20.2000	21.0000	21.8000	22.6000	23.4000	24.2000	25.0000	25.8000	26.6000	27.4000	28.2000	29.0000
14	14.9400	15.9400	16.9400	17.9400	18.9400	19.9400	20.9400	21.9400	22.9400	23.9400	24.9400	25.9400	26.9400	27.9400	28.9400	29.9400	30.9400	31.9400	32.9400	33.9400
15	16.0900	17.2900	18.4900	19.6900	20.8900	22.0900	23.2900	24.4900	25.6900	26.8900	28.0900	29.2900	30.4900	31.6900	32.8900	34.0900	35.2900	36.4900	37.6900	38.8900
16	17.2500	18.6500	20.0500	21.4500	22.8500	24.2500	25.6500	27.0500	28.4500	29.8500	31.2500	32.6500	34.0500	35.4500	36.8500	38.2500	39.6500	41.0500	42.4500	43.8500
17	18.4300	20.0100	21.5900	23.1700	24.7500	26.3300	27.9100	29.4900	31.0700	32.6500	34.2300	35.8100	37.3900	38.9700	40.5500	42.1300	43.7100	45.2900	46.8700	48.4500
18	19.6300	21.4100	23.2100	25.0100	26.8100	28.6100	30.4100	32.2100	34.0100	35.8100	37.6100	39.4100	41.2100	43.0100	44.8100	46.6100	48.4100	50.2100	52.0100	53.8100
19	20.8400	22.8400	24.8400	26.8400	28.8400	30.8400	32.8400	34.8400	36.8400	38.8400	40.8400	42.8400	44.8400	46.8400	48.8400	50.8400	52.8400	54.8400	56.8400	58.8400
20	22.0600	24.2900	26.5200	28.7500	30.9800	33.2100	35.4400	37.6700	39.9000	42.1300	44.3600	46.5900	48.8200	51.0500	53.2800	55.5100	57.7400	59.9700	62.2000	64.4300
21	23.2900	25.7800	28.2700	30.7600	33.2500	35.7400	38.2300	40.7200	43.2100	45.7000	48.1900	50.6800	53.1700	55.6600	58.1500	60.6400	63.1300	65.6200	68.1100	70.6000
22	24.5200	27.2900	29.9800	32.6700	35.3600	38.0500	40.7400	43.4300	46.1200	48.8100	51.5000	54.1900	56.8800	59.5700	62.2600	64.9500	67.6400	70.3300	73.0200	75.7100
23	25.7600	28.8500	31.5500	34.2400	36.9400	39.6300	42.3200	45.0100	47.7000	50.3900	53.0800	55.7700	58.4600	61.1500	63.8400	66.5300	69.2200	71.9100	74.6000	77.2900
24	26.9900	30.4200	33.1200	35.8100	38.5100	41.2000	43.8900	46.5800	49.2700	51.9600	54.6500	57.3400	60.0300	62.7200	65.4100	68.1000	70.7900	73.4800	76.1700	78.8600
25	28.2400	32.0000	34.7000	37.4900	40.1900	42.8800	45.5700	48.2600	50.9500	53.6400	56.3300	59.0200	61.7100	64.4000	67.0900	69.7800	72.4700	75.1600	77.8500	80.5400
26	29.5000	33.6700	36.3800	39.0800	41.7800	44.4700	47.1600	49.8500	52.5400	55.2300	57.9200	60.6100	63.3000	66.0000	68.6900	71.3800	74.0700	76.7600	79.4500	82.1400
27	30.7800	35.3400	38.0500	40.7600	43.4600	46.1500	48.8400	51.5300	54.2200	56.9100	59.6000	62.2900	64.9800	67.6700	70.3600	73.0500	75.7400	78.4300	81.1200	83.8100
28	32.0700	37.0100	39.7200	42.4300	45.1200	47.8100	50.5000	53.1900	55.8800	58.5700	61.2600	63.9500	66.6400	69.3300	72.0200	74.7100	77.4000	80.0900	82.7800	85.4700
29	33.3800	38.7200	41.4300	44.1400	46.8300	49.5200	52.2100	54.9000	57.5900	60.2800	62.9700	65.6600	68.3500	71.0400	73.7300	76.4200	79.1100	81.8000	84.4900	87.1800
30	34.7000	40.5000	43.2100	45.9200	48.6100	51.3000	54.0000	56.6900	59.3800	62.0700	64.7600	67.4500	70.1400	72.8300	75.5200	78.2100	80.9000	83.5900	86.2800	88.9700
31	36.0300	42.3700	45.0800	47.7900	50.4800	53.1700	55.8600	58.5500	61.2400	63.9300	66.6200	69.3100	72.0000	74.6900	77.3800	80.0700	82.7600	85.4500	88.1400	90.8300
32	37.3800	44.2400	46.9500	49.6600	52.3500	55.0400	57.7300	60.4200	63.1100	65.8000	68.4900	71.1800	73.8700	76.5600	79.2500	81.9400	84.6300	87.3200	90.0100	92.7000
33	38.7500	46.1100	48.8200	51.5300	54.2200	56.9100	59.6000	62.2900	64.9800	67.6700	70.3600	73.0500	75.7400	78.4300	81.1200	83.8100	86.5000	89.1900	91.8800	94.5700
34	40.1300	48.0000	50.7100	53.4200	56.1100	58.8000	61.4900	64.1800	66.8700	69.5600	72.2500	74.9400	77.6300	80.3200	83.0100	85.7000	88.3900	91.0800	93.7700	96.4600
35	41.5300	49.9100	52.6200	55.3300	58.0200	60.7100	63.4000	66.0900	68.7800	71.4700	74.1600	76.8500	79.5400	82.2300	84.9200	87.6100	90.3000	92.9900	95.6800	98.3700
36	42.9400	51.8400	54.5500	57.2600	60.0000	62.6900	65.3800	68.0700	70.7600	73.4500	76.1400	78.8300	81.5200	84.2100	86.9000	89.5900	92.2800	94.9700	97.6600	100.3500
37	44.3600	53.7900	56.5000	59.1100	61.8100	64.5000	67.1900	69.8800	72.5700	75.2600	77.9500	80.6400	83.3300	86.0200	88.7100	91.4000	94.0900	96.7800	99.4700	102.1600
38	45.7900	55.7600	58.4700	61.0800	63.7700	66.4600	69.1500	71.8400	74.5300	77.2200	79.9100	82.6000	85.2900	87.9800	90.6700	93.3600	96.0500	98.7400	101.4300	104.1200
39	47.2400	57.7500	60.4600	63.1700	65.8600	68.5500	71.2400	73.9300	76.6200	79.3100	82.0000	84.6900	87.3800	90.0700	92.7600	95.4500	98.1400	100.8300	103.5200	106.2100
40	48.7000	59.7600	62.4700	65.1800	67.8700	70.5600	73.2500	75.9400	78.6300	81.3200	84.0100	86.7000	89.3900	92.0800	94.7700	97.4600	100.1500	102.8400	105.5300	108.2200



FINAL EXAMINATION

SEMESTER / SESSION: SEMESTER I 2021/2022
 COURSE NAME: FINANCIAL MANAGEMENT

PROGRAMME CODE : MPA
 COURSE CODE: MPA 10703

Present Value Table	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	0.263	0.250	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	0.206	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	0.160	0.141	0.125	0.111	0.099	0.088	0.078
15	0.861	0.745	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	0.144	0.125	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	0.160	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	0.563	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	0.054	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	0.065	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	0.060	0.041	0.029	0.021	0.015	0.011	0.008	0.006	0.005	0.004	0.003	0.002	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

FINAL EXAMINATION

SEMESTER / SESSION: SEMESTER I 2021/2022
 COURSE NAME: FINANCIAL MANAGEMENT

PROGRAMME CODE : MPA
 COURSE CODE: MPA 10703

Percent 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	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	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	2.285	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	4.486	4.355	4.231	4.111	3.998	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	5.602	5.419	5.246	5.083	4.933	4.794	4.664	4.542	4.428	4.318	4.212	4.107	4.008	3.914	3.825
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	4.305	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	4.660	4.494	4.339	4.192
11	10.368	9.787	9.253	8.760	8.306	7.887	7.499	7.139	6.800	6.496	6.207	5.938	5.687	5.453	5.234	5.029	4.836	4.656	4.486	4.327
12	11.253	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	8.853	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
14	13.004	12.106	11.296	10.563	9.890	9.295	8.745	8.244	7.786	7.387	7.016	6.674	6.360	6.072	5.802	5.549	5.324	5.092	4.876	4.675
15	13.865	12.849	11.958	11.118	10.380	9.712	9.108	8.539	8.011	7.524	7.063	6.634	6.234	5.862	5.507	5.264	5.036	4.802	4.576	4.363
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	5.688	5.405	5.162	4.938	4.730
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	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	6.687	6.312	5.973	5.665	5.384	5.127	4.891
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	6.359	6.011	5.696	5.410	5.149	4.909
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	5.442	5.187	4.925
24	21.243	18.914	16.936	15.247	13.799	12.530	11.469	10.529	9.707	8.965	8.348	7.784	7.283	6.835	6.434	6.074	5.746	5.481	5.182	4.937
25	22.023	19.525	17.413	15.622	14.094	12.763	11.654	10.675	9.823	9.077	8.422	7.843	7.330	6.873	6.464	6.097	5.766	5.497	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	7.893	7.372	6.906	6.491	6.118	5.785	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	8.506	7.943	7.409	6.935	6.541	6.166	5.796	5.492	5.215	4.964
28	24.316	21.281	18.744	16.663	14.916	13.486	12.137	11.051	10.116	9.307	8.602	7.984	7.441	6.961	6.534	6.132	5.809	5.502	5.225	4.970
29	25.066	21.844	19.188	16.984	15.141	13.791	12.278	11.158	10.198	9.370	8.650	8.022	7.470	6.983	6.531	6.166	5.820	5.510	5.229	4.975
30	25.806	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	5.236	4.979
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	6.187	5.837	5.523	5.239	4.982
32	27.270	23.468	20.389	17.874	15.803	14.084	12.647	11.455	10.406	9.526	8.769	8.112	7.538	7.035	6.591	6.196	5.844	5.528	5.243	4.985
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	6.205	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	14.508	12.948	11.655	10.587	9.644	8.853	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	10.632	9.677	8.879	8.192	7.598	7.079	6.623	6.220	5.862	5.541	5.253	4.993
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	16.868	14.846	13.193	11.829	10.691	9.733	8.919	8.221	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	7.100	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