

ATD LEVEL II

FUNDAMENTALS OF FINANCE

TUESDAY: 21 May 2019.

Time Allowed: 3 hours.

Answer ALL questions. Marks allocated to each question are shown at the end of the question. Show ALL your workings.

OUESTION ONE

(b)

- Explain the following terms as used in finance:
 - Financial intermediaries.

(2 marks)

(ii) Risk-return trade off.

(2 marks)

(iii) Stakeholder management.

Describe three motives of holding inventory.

(2 marks)

(6 marks)

www.kasnebnotes.co.ke (c) Zeltex Ltd.'s shares cost Sh.120 each and pay no dividends. The possible prices that the company's shares might sell for at the end of the year with the respective probabilities are provided below:

Price	Probability
Sh.	•
115	0.10
120	0.10
125	0.20
130	0.30
135	0.20
140	0.10

Required:

(i) The expected return of the company's shares.

(ii) The standard deviation of return. (4 marks)

(Total: 20 marks)

OUESTION TWO

Firms strive to achieve objectives which at times overlap with each other and in some cases conflict with each other.

With reference to the above statement, discuss four overlaps that could arise in the course of a firm's effort to achieve its objectives. (8 marks)

(b) Umbo Ltd. is evaluating two mutually exclusive projects, A and B. Both projects are expected to cost Sh.8 million. However, an additional Sh.1 million investment in working capital will be required if the firm were to invest in project A and Sh.1.5 million for Project B.

Project A has an estimated useful life of five years while Project B has an estimated useful life of 4 years. Estimated net operating cash flows (NOCF) from each investment in each year are given as follows:

Year	PRO	JECT
	A	В
	Sh."000"	Sh."000"
1 .	2,500	3,500
2	3,000	3,500
3	3,500	3,500
4	2,800	3,500
5	2,000	-

Additional information:

- The resale values for Project A and Project B at the end of their useful life are estimated at Sh.200,000 and 1. Sh.300,000 respectively.
- 2. Cost of capital is projected at 14%.

Required:

Net present value (NPV) for Project A and Project B. (i)

(10 marks)

(ii) Advise the company on which project to undertake. (2 marks)

(Total: 20 marks)

QUESTION THREE

(a) Describe four forms of dividend payments that a company could utilise to pay its shareholders. (8 marks)

(b) Mazeras Ltd. is considering an investment of Sh.20,000 that will generate a perpetual after tax annual cash flow of Sh.2,000. The required rate of return is 8%.

Required:

(i) The investment's profitability Index (PI).

(3 marks)

- (ii) Advise the company whether to undertake the investment, based on the profitability index obtained in (b) (i) above. (2 marks)
- (c) Explain two advantages of using private placement when issuing long-term debt.

(4 marks)

(d) John Malech deposits the following amounts at the end of each year in a savings account paying an annual interest rate of 4% compounded semi annually:

Year	End of year deposits (Sh.)
1	4,000
2	8,000
3	7,000
4	10,000

Required:

The value of the account at the end of year 4.

QUESTION FOUR

- (3 marks)
 (Total: 20 mark

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 year (a) In relation to financial markets, outline four benefits that could accrue to investors from using the Central Depository System in securities trading.
- Kingstone Omondi plans to make a constant deposit into his savings account at the start of each year over a period of (b) four years.

He expects the sum deposited to earn interest at the rate of 8% each year compounded annually. Omondi expects to raise Sh.1,500,000 after four years in order to finance a capital investment.

Required:

The annual deposit into his savings account.

(4 marks)

(c) Ushindi Ltd.'s capital structure which is considered optimal, is as follows:

	Sh."000"
Ordinary share capital (Sh.10 Par value)	40,000
Reserves	20,000
12% Debenture (Sh.100 Par value)	40,000
	100,000

The firm's management are considering raising an additional Sh.20 million to finance an expansion programme. The company expects to generate Sh.2 million from internal sources.

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Additional information:

- The firm will issue new ordinary shares at Sh.25 each to raise desired external equity. A floatation cost of 1. Sh.2 per share will be incurred.
- 2. The company will issue new 14% redeemable debentures to raise desired debt capital. The issue price will be at Sh.90 subject to a floatation cost of Sh.10 per unit issued. The debentures will mature after 10 years. Par value of each unit is Sh.100.
- 3. Corporation tax rate applicable is 30%.
- The most recent ordinary dividend paid is Sh.3.0 per share, while future dividends shall grow at the rate of 5% each year in perpetuity.

Required:

The cost of retained profit. (i)

(2 marks)

(ii) The cost of new ordinary share capital. (2 marks)

(iii) The cost of new 14% redeemable debt. (3 marks)

The firm's weighted marginal cost of capital (WMCC). (iv)

(5 marks) (Total: 20 marks)

QUESTION FIVE

- Explain the following principles of Islamic Banking and Finance: (a)
 - (i) Paying or charging an interest (Riba).

(2 marks)

(ii) Investing in businesses involved in prohibited activities (Haram). (2 marks)

(iii) Speculation (Maisir). (2 marks)

- (b)
- (c)

(iv) Uncertainty and risk (Gharar).		(2 marks)
Summarise four roles of the Capital Markets Auth	nority (CMA) or similar authority in your co	ountry. (Tmarks)
Baraka Ltd. has provided the following forecasted	d financial information for the year ending 3	0 June 201
	Sh."000"	unixas.
Sales – (all credit)	7,200	12.
Average trade receivables	612	120
Finished goods	400	
Work-in-progress (WIP)	700	
Raw materials (balance held)	300	
Trade payables	260	

The gross profit margin is 25% on sales. Raw materials are 80% of the cost of sales. All purchases are also made on

Assume that the calendar year has 365 days and that inventory levels are constant throughout the year.

Required:

Calculate the following:

(i)	Raw material holding period.	(2 marks)
(ii)	Trade payable days.	(1 mark)
(iii)	Work-in-progress (WIP) period.	(1 mark)
(iv)	Finished goods holding period.	(1 mark)
(v)	Trade receivables collection period.	(1 mark)
(vi)	Cash operating cycle	(2 marks) (Total: 20 marks)

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Present Value of 1 Received at the End of *n* Periods:

 $PVIF_{r,n} = 1/(1+r)^n = (1+r)^{-n}$

Period	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	12%	14%	15%	16%	18%	20%	24%	28%	32%	36%
1	.9901	.9804	.9709	.9615	.9524	.9434	.9346	9259	.9174	.9091	.8929	8772	.8696	.8621	.8475	.8333	.8065	.7813	.7576	
2	.9803	.9612	.9426	.9246	.9070	.8900	.8734	.8573	.8417	.8264	.7972	7695	.7561	.7432	.7182	.6944	.6504	.6104	.5739	.7353
3	.9706	.9423	.9151	.8890	.8638	.8396	.8163	.7938	.7722	.7513	.7118	.6750	.6575	.6407	.6086	.5787	.5245	.4768	.4348	.540
4	.9610	.9238	.8885	.8548	.8227	.7921	.7629	.7350	.7084	.6830	.6355	.5921	.5718	.5523	.5158	.4823	.4230	.3725	.3294	
5	.9515	.9057	.8626	.8219	.7835	.7473	.7130	.6806	.6499	.6209	.5674	5194	.4972	.4761	.4371	.4019	.3411	.2910	.3294	.292
6	.9420	0000	0075	7000														.20.0	.2 455	
7		.8880	.8375	.7903	.7462	.7050	.6663	.6302	.5963 `	.5645	.5066	.4556	.4323	.4104	.3704	.3349	.2751	.2274	.1890	.158
	.9327	.8706	.8131	.7599	.7107	.6651	.6227	.5835	.5470	.5132	.4523	.3996	.3759	.3538	.3139	.2791	.2218	:1776	.1432	.116
8	.9235	.8535	.7894	.7307	.6768	.6274	.5820	.5403	.5019	.4665	.4039	.3506	.3269	.3050	.2660	.2326	.1789	.1388	.1085	.085
9	.9143	.8368	.7664	.7026	.6446	.5919	.5439	.5002	.4604	.4241	.3606	3075	.2843	.2630	.2255	.1938	.1443	.1084	.0822	.062
10	.9053	.8203	.7441	.6756	.6139	.5584	.5083	.4632	.4224	.3855	.3220	.2697	.2472	.2267	.1911	.1615	.1164	.0847	.0623	.046
. 11	8963	.8043	.7224	.6496	.5847	.5268	.4751	.4289	.3875	.3505	.2875	.2366	.2149							
12	.8874	.7885	.7014	.6246	.5568	.4970	.4440	3971	.3555	.3186	.2567	.2076		.1954	.1619	.1346	.0938	.0662	.0472	.034
13	.8787	.7730	.6810	.6006	.5303	.4688	.4150	.3677	.3262	.2897	.2292	.1821	.1869 .1625	1685	.1372	.1122	.0757	.0517	.0357	.025
14	.8700	.7579	.6611	.5775	.5051	.4423	.3878	.3405	.2992	.2633	.2046	.1597	.1413	.1452	.1163	.0935	.0610	.0404	.0271	.018
15	.8613	.7430	.6419	.5553	.4810	.4173	.3624	3152	.2745	.2394	.1827	1401	.1229	.1252	.0985 .0835	.0779	.0492	.0316	.0205	.013
									.21.40	.2004	.1021	.1401	.1223	.1079	.0835	.0649	.0397	.0247	.0155	009
16	.8528	.7284	.6232	.5339	.4581	.3936	.3387	.2919	.2519	.2176	.1631	.1229	.1069	.0930	.0708	.0541	.0320	.0193	.0118	007
17	.8444	.7142	.6050	.5134	.4363	.3714	.3166	.2703	.2311	.1978	.1456	1078	.0929	.0802	.0600	.0451	.0320	.0150	.0089	.0073
18	.8360	.7002	.5674	.4936	.4155	.3503	.2959	.2502	.2120	.1799	.1300	.0946	.0808	.0691	.0508	.0376	.0208	.0118	.0068	.0054
19	.8277	.6864	.5703	.4746	.3957	.3305	.2765	.2317	.1945	.1635	.1161	.0829	.0703	.0596	.0431	.0313	.0168	.0092	.0051	.0039
20	.8195	.6730	.5537	.4564	.3769	.3118	.2584	.2145	.1784	1486	1037	.0728	.0611	.0514	.0365	.0261	.0135	.0092	.0039	.0029
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25	.7798	.6095	.4776	.3751	.2953	.2330	.1842	.1460	.1160	.0923	.0588	.0378	.0304	.0245	.0160	.0105	.0046	.0021	.0010	000
30	.7419	.5521	.4120	.3083	.2314	.1741	.1314	.0994	.0754	.0573	.0334	.0196	.0151	.0116	.0070	.0042	.0016	.0006	.0002	.000:
40	.6717	.4529	.3066	.2083	.1420	.0972	.0668	0460	.0318	.0221	.0107	.0053	.0037	.0026	.0013	.0007	.0002	.0001	.5002	
50	.6080	.3715	.2281	.1407	.0872	.0543	.0339	.0213	.0134	.0085	.0035	.0014	.0009	.0006	.0003	.0001	.0002	,1001		
60	.5504	.3048	.1697	.0951	.0535	.0303	.0173	.0099	.0057	.0033	.0011	.0004	.0002	.0001		.0001	•	•	-	
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^{*} The factor is zero to four decimal places

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9														4.3436	4.0776	3.8372	3.4212		
10	9.4713	8.9826													4.3030	4.0310	3.5655	3.1842	
							1.0250	0.7101	0.4177	6.1446	5.6502	5.2161	5.0188	4.8332	4.4941	4.1925	3.6819	3.2689	2.9304
1	10.3676	9.7868	9.2526	8.7605	8.3064	7.8869	7.4987	7 1390	6 8052	6 4951	5 0277	£ 4507							
	11.2551	10.5753	9.9540	9.3851	8.8633	8.3838												3.3351	2.9776
						8.8527												3.3868	3.0133
						9.2950	8.7455												3.0404
15	13.8651	12.8493	11.9379	11.1184	10.3797	9.7122	9.1079	8.5595											
	44747-											7.1744	J.0-14	3.3733	5.0916	4.6755	4.0013	3.4834	3.0764
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9 1	17.3983	14.9920	13.7535	12.6593	11.6896	10.8276	10.0591	9.3719	3.7556										
9 1	11.2260	10.6785	14.3238	13.1339	12.0853	11.1581	10.3356	9.6036	8.9501	8.3649									
9	0.0436	15.3514	14.8775	13.5903	12.4622	11.4699	10.5940	9.8181	9.1285	8.5136	7.4694								
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