



ATD LEVEL II

FUNDAMENTALS OF FINANCE

TUESDAY: 31 August 2021.

Time Allowed: 3 hours.

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

QUESTION ONE

- (a) Distinguish between “agency cost” and “agency conflict”. (4 marks)
- (b) Describe four factors that might influence the working capital requirements of a firm. (8 marks)
- (c) Akili Mingi will deposit Sh.500,000 in her savings account at the end of the year 2021. She will deposit an additional Sh.200,000 at the end of each subsequent year in that account, the sum deposited is expected to earn interest at the rate of 8% per annum, compounded annually.

Required:

- (i) Determine the cumulative amount that is expected to be in her account at the end of the year 2025. (6 marks)
- (ii) The rate of return expected to be earned over the projected period. (2 marks)
- (Total: 20 marks)**

QUESTION TWO

- (a) Summarise two advantages of lease finance. (4 marks)
- (b) Describe three business activities that are prohibited under Islamic finance. (6 marks)
- (c) Perks Ltd. is considering acquisition of one of the following two equipment:
- Equipment A: Has a cost of Sh.750,000 and net cash flow of Sh.200,000 per year for six years.
 - Equipment B: Has a cost of Sh.500,000 and net cash flow of Sh.140,000 per year for six years.

The required rate of return on both equipment is 10%.

Required:

- (i) Net present value (NPV) of each equipment. (4 marks)
- (ii) The internal rate of return (IRR) of each equipment. (4 marks)
- (iii) Advise the management of Perks Ltd. on which equipment should be accepted. (2 marks)
- (Total: 20 marks)**

QUESTION THREE

- (a) Explain three functions of the securities market in your country. (6 marks)
- (b) Melody Ltd. is considering raising an additional Sh.10,000,000 to finance an expansion programme.

The firm’s existing capital structure which is considered to be optimal is given as follows:

	Sh.“000”
Ordinary share capital	40,000
Reserves	20,000
16% debenture (Sh.100 par)	25,000
14% preference share capital (Sh.20 each)	<u>15,000</u>
	<u>100,000</u>

Additional information:

1. The firm expects to generate Sh.2,000,000 from retained earnings for this expansion programme.
2. Additional new ordinary shares will be issued at Sh.45 each subject to a floatation cost of Sh.5 per share. The most recent dividend paid by the company is Sh.2 per share. The firm's dividends are expected to grow at the rate of 5% per annum in perpetuity.
3. The company will issue new 16% debentures at a price of Sh.110.
4. New 14% preference shares will be issued at par.
5. Corporation tax rate applicable is 30%.

Required:

- (i) The cost of retained earnings. (2 marks)
- (ii) The cost of new ordinary share capital. (2 marks)
- (iii) The cost of new 16% debentures. (2 marks)
- (iv) The cost of new preference shares. (1 mark)
- (v) The company's weighted marginal cost of capital (WMCC). (5 marks)
- (vi) The number of new ordinary shares to be issued to raise desired external equity. (2 marks)

(Total: 20 marks)**QUESTION FOUR**

- (a) Explain the terms "discounted cash flow". (2 marks)
- (b) Discuss three limitations of debentures as a source of finance. (6 marks)
- (c) Benard Kiarie undertakes a contractual job for 5 years, in which his annual salary of Sh.1 million is payable at the end of each year. His salary has a provision of an annual increment of 8%. The required rate of return is 10% per annum.

Required:

The present value of his salary. (5 marks)

- (d) Star Computer Ltd. has forecasted return on its share with the following probability distribution:

Return (%)	Probability
-20	0.05
-10	0.05
-5	0.10
5	0.10
10	0.15
18	0.25
20	0.25
30	0.05

Required:

- (i) The expected return. (3 marks)
- (ii) The standard deviation of return. (4 marks)

(Total: 20 marks)**QUESTION FIVE**

- (a) Summarise two disadvantages of the profit maximisation as an objective of a firm. (4 marks)
- (b) Explain three factors that might influence the dividend policy of a firm. (6 marks)
- (c) Bafana Ltd. currently operates with terms of net 72 days. The firm's current average investment in account receivables is Sh.4,800,000. 60% of the firm's sales are always on credit. The current total sales amount to Sh.38,400,000.

Additional information:

1. The company is considering introducing terms of 3/15 net 90 days.
2. The firm's total turnover is expected to increase by 30% as a result of relaxing the terms of sale.
3. All cash customers and 60% of the credit customers will take advantage of the cash discount offer.

4. The firm's average collection period will rise from current level 75 days to 80 days.
5. Bad debts are expected to remain at 5% of credit sales.
6. Inventory levels are estimated to be 5% of the firm's total turnover.
7. The gross margin on sales is 40%.
8. The cost of capital is 18%.
9. Corporation tax rate applicable is 30%.

(Assume that a year has 360 days).

Required:

Advise the management of Bafana Ltd. whether to adopt the new credit policy.

(10 marks)

(Total: 20 marks)

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