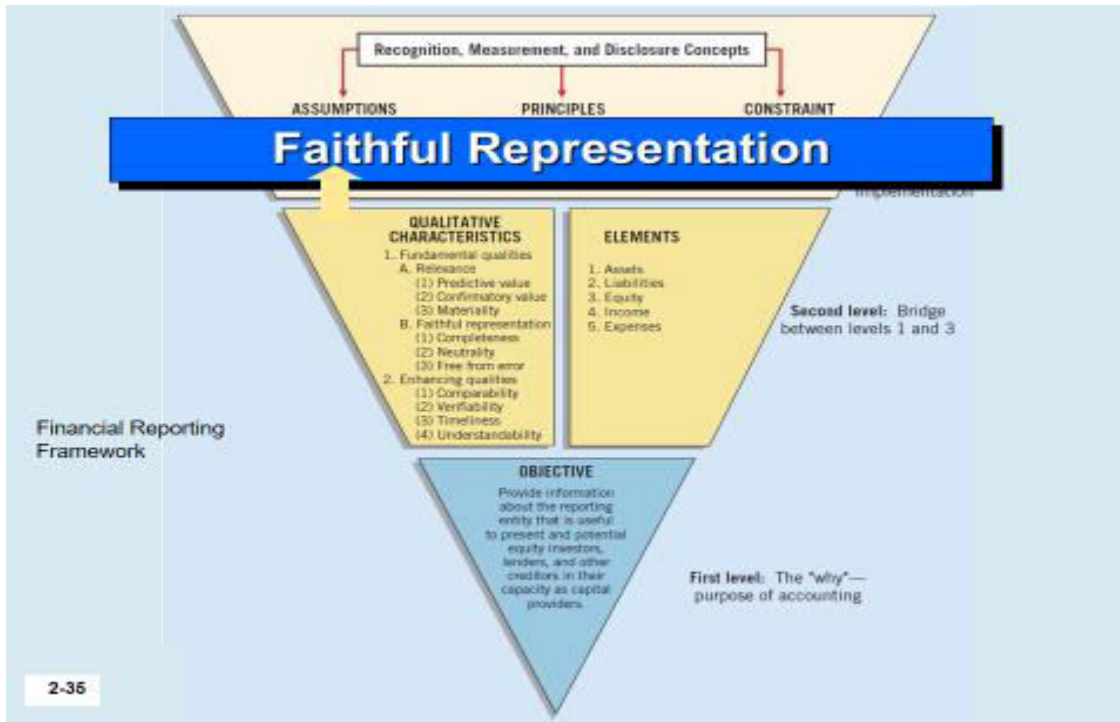


**CMA JUNE, 2020 EXAMINATION
PROFESSIONAL LEVEL - I
SUBJECT: 101. INTERMEDIATE FINANCIAL ACCOUNTING**

Model Solution

Solution of the Q. No. 1

(a)



- i. Confirmatory value
- ii. Neutrality
- iii. Comparability
- iv. Verifiability
- v. Relevance
- vi. Materiality
- vii. Timeliness
- viii. Relevance & Faithful representation

(b)

Management has concluded that the **probability-weighted method** is the most predictive approach:

$$\begin{aligned}
 60\% \text{ chance of } \$150,000 &= \$ 90,000 \\
 30\% \text{ chance of } \$145,000 &= 43,500 \\
 10\% \text{ chance of } \$140,000 &= 14,000 \\
 \hline
 &= \underline{\underline{\$147,500}}
 \end{aligned}$$

Most likely outcome, if management believes they will meet the deadline and receive the \$50,000 bonus, the total transaction price would be = \$150,000 (the outcome with 60% probability)

(c)

i.

$$\begin{aligned}
 \text{Return on common stockholders' equity} &= 20\% = \text{Net Income} / \text{Average Equity} \\
 &= 0.20 = \text{Net Income} / (400,000 + 101,000 + 400,000 + 130,000) / 2 \\
 &= .20 \times \$515,500 = \text{Net income} = \underline{\underline{\$103,100}}
 \end{aligned}$$

Cash flows from financing activities:	
Dividends paid.....	<u>(100,000)</u>
Net cash used by financing activities.....	<u>(100,000)</u>
Net increase in cash.....	115,000
Cash, January 1, 2015	<u>700,000</u>
Cash, December 31, 2015.....	<u>\$815,000</u>

Separate schedule presented in the notes:

<u>Non-cash investing and financing activities:</u>	
Issuance of lease liability for building	\$400,000

Explanation of Amounts

(a) Depreciation		
Net increase in accumulated depreciation for the year ended December 31, 2015		\$125,000
Accumulated depreciation on equipment sold:		
Cost.....	\$60,000	
Carrying value	<u>38,000</u>	<u>22,000</u>
Depreciation for 2015.....		<u>\$147,000</u>
(b) Gain on sale of equipment		
Proceeds		\$ 40,000
Carrying value		<u>(38,000)</u>
Gain.....		<u>\$ 2,000</u>
(c) Equity in earnings of Myers Co.		
Myers's net income for 2015.....		\$140,000
Sullivan's ownership		<u>X 25%</u>
Undistributed earnings of Myers Co.....		<u>\$ 35,000</u>

Solution of the Q. No. 3

(a) (1) The direct write-off approach is not theoretically justifiable even though required for income tax purposes. The direct write-off method does not match expenses with revenues of the period, nor does it result in receivables being stated at estimated realizable value on the balance sheet.

(2) Bad Debt Expense = 2% of Sales = (Tk.2,400,000 X 2%) = Tk.48,000

Bad Debt Expense = Direct Write-Off = (Tk.7,800 + Tk.9,700 + Tk.7,000 + Tk.9,830) = Tk.34,330

Net income would be Tk.13,670 (Tk.48,000 – Tk.34,330) lower under the percentage-of-sales approach.

(b)

Cash.....	136,800*
Sales Discounts.....	1,200
Accounts Receivable.....	138,000

*[Tk138,000 – (Tk60,000 X 2%)]

Accounts Receivable	5,300
Allowance for Doubtful Accounts	5,300

Cash.....	5,300
Accounts Receivable.....	5,300
Allowance for Doubtful Accounts	17,500
Accounts Receivable.....	17,500
Bad Debt Expense.....	14,900
Allowance for Doubtful Accounts	14,900*

*(Tk.17,300 + Tk.5,300 – Tk.17,500 = Tk.5,100;Tk.20,000 – Tk.5,100 = Tk.14,900)

(c)

- (1) In terms of IAS 2.18, any costs (regardless of the amount), that are directly attributable in bringing the inventory to the location and in a condition to be used as intended by management may be capitalised to the asset. Thus the Tk.50 000 can be included in the cost of the fabric. Note however that additional consideration must be given to calculating the net realisable value and ensuring that it is not less than this new higher cost of the fabric (or else a write down would be required).
- (2) Yes, the consultant's fees may be capitalised to the cost of the baggies inventory under IAS 2.18: any costs (regardless of the amount), that are directly attributable in bringing the inventory to the location and in a condition to be used as intended by management may be capitalised to the asset.
- (3) Fabric X should be valued at cost because no write down below cost to NRV is permitted if the finished goods in which the fabric is used (the T-shirts) are expected to be sold at or above cost (IAS 2.32).

Solution of the Q. No. 4

(a)

Taka 33 million

IAS 16.11 requires the capitalisation of essential safety equipment even if there are no future economic benefits flowing directly from its operation. It does however subject the total value of all the related assets to an impairment test. In this case the recoverable amount is Taka 33m, as the net selling price Taka 33m is greater than the value in use Taka 32m (ie Taka 3.2m / 0.1). As this is less than the total carrying amount of Taka 35m (Taka 30m + 5m), the assets are written down to Taka 33m.

(b)

Taka 0.7 million

IAS 36.60 and 61 (also IAS 16.40) require that an impairment that reverses a previous revaluation should be recognised through the revaluation reserve to the extent of that reserve. Any remaining amount is recognised through profit or loss. Thus:

- The carrying amount at 31 December 20X2 is $45/50 \times \text{Taka}5.0\text{m} = \text{Taka}4.5\text{m}$.
- The revaluation reserve created is Taka 3.5m (i.e., Taka 8.0m – Taka 4.5m)
- The carrying amount at 31 December 20X7 is $40/45 \times \text{Taka}8.0\text{m} = \text{Taka}7.1\text{m}$
- The recoverable amount at 31 December 20X7 is Taka 2.9m.
- The total impairment charge is Taka 4.2m (i.e., Taka 7.1m – Taka 2.9m).
- Of this, Taka 3.5m is a reversal of the revaluation reserve, so only Taka 0.7 million is recognized through profit or loss.

(c)			
	Patents.....	435,000	
	Goodwill.....	360,000	
	Franchise.....	450,000	
	Copyright.....	156,000	
	Research and Development Expense (Tk. 215,000 – Tk. 55,000).....	160,000	
	Intangible Assets.....		1,561,000
	Amortization Expense.....	85,500	
	Patents (Tk. 380,000/8) + (Tk. 55,000 X 4/88)*...		50,000
	Franchise (Tk. 450,000/10 X 6/12).....		22,500
	Copyright (Tk. 156,000/5 X 5/12).....		13,000

Economically viable R & D will lead to 'Patent'. Therefore total period applicable = (7 X 12) + 4 = 88

Balance of Intangible Assets as of December 31, 2015

Patents	=	Tk. 435,000 – Tk. 50,000 = Tk. 385,000
Goodwill	=	Tk. 360,000 (no amortization)
Franchise	=	Tk. 450,000 – Tk. 22,500 = Tk. 427,500
Copyright	=	Tk. 156,000 – Tk. 13,000 = Tk. 143,000

(d)			
(i)	Buildings.....	75,000	
	Equipment.....	70,000	
	Trademarks.....	15,000	
	Land.....	80,000	
	Inventory.....	125,000	
	Receivables.....	90,000	
	Cash.....	50,000	
	Goodwill.....	95,000*	
	Accounts Payable.....		200,000
	Notes Payable.....		150,000
	Cash.....		250,000
	*Tk. 400,000 – [Tk. 235,000 + Tk. 40,000 + Tk. 25,000 + Tk. 5,000]		
	Note that the building and equipment would be recorded at the 7/1/15 cost to ABC; accumulated depreciation accounts would not be recorded.		
(ii)	Trademark Amortization Expense.....	1,500	
	Trademarks [(Tk. 15,000 – Tk. 3,000) X 1/4 X 6/12].....		1,500

Solution of Q. No. 5

(a) (1)

	<u>December 31, 20x2</u>	
Available-for-Sale Securities.....	1,200,000	
Cash.....		1,200,000
	<u>June 30, 20x3</u>	
Cash.....	42,500	
Dividend Revenue.....		42,500
	<u>December 31, 20x3</u>	
Cash.....	42,500	
Dividend Revenue.....		42,500
Securities Fair Value Adjustment (Available-for-Sale).....	150,000	
Unrealized Holding Gain or Loss—Equity.....		150,000
[Tk. 27 X 50,000 = Tk. 1,350,000; Tk. 1,350,000 – Tk. 1,200,000 = Tk. 150,000]		

(2)

	<u>December 31, 20x2</u>	
Investment in Handerson's Stock.....	1,200,000	
Cash	1,200,000	
	<u>June 30, 20x3</u>	
Cash	42,500	
Investment in Handerson's Stock	42,500	
	<u>December 31, 20x3</u>	
Cash	42,500	
Investment in Handerson's Stock	42,500	
Investment in Handerson's Stock.....	146,000	
Revenue from Investment.....	146,000	
	[(20% X Tk.730,000)]	

(3)

	<u>Fair Value Method</u>	<u>Equity Method</u>
Investment amount (balance sheet)	Tk. 1,350,000	Tk. 1,261,000*
Dividend revenue (income statement)	85,000	0
Revenue from investment (income statement)		146,000
	[* Tk.1,200,000 + Tk.146,000 – Tk.42,500 – Tk.42,500]	

(b) (1)

	<u>December 31, 20x2</u>	
Computer	409,806.00	
Notes Payable.....	409,806.00	
(Computer capitalized at the present value of the note—Tk600,000 X .68301)		

(2)

	<u>December 31, 20x3</u>	
Depreciation Expense	67,961.20	
Accumulated Depreciation—Computer		
[(Tk409,806 – Tk70,000) ÷ 5]	67,961.20	
Interest Expense	40,980.60	
Notes Payable.....	40,980.60	

Schedule of Note Discount Amortization

Date	Debit, Interest Expense Credit, Discount on Notes Payable	Carrying Value of Note
12/31/x2		Tk. 409,806.00
12/31/x3	Tk.40,980.60	450,786.60
12/31/x4	45,078.66	495,865.26
12/31/x5	49,586.53	545,451.79
12/31/x6	54,548.21*	600,000.00

*3.03 adjustment due to rounding.

(3)

	<u>December 31, 20x4</u>	
Depreciation Expense	67,961.20	
Accumulated Depreciation—Computer.....	67,961.20	
Interest Expense	45,078.66	
Notes Payable.....	45,078.66	

= THE END =