Problem 7

Danish Bakery issued \$1,000,000, face amount, of 6% bonds on January 1, 20X3. The bonds are 10-year bonds, and Interest is payable every 6 months. At the time of issue, the market rate of interest was 8%, so the bonds were issued at a discount.

- a) Prepare calculations showing that issue price was approximately \$4,786,725.
- b) Use the effective-interest method of amortization, and prepare the journal entries that Danish Bakery would record on January 1, 20X3, June 30, 20X3, and December 31, 20X3.
- c) Show how the bonds would appear on Danish Bakery's December 31, 20X3 balance sheet.

Worksheet 7

a)

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GENERAL JOURNAL						
Date	Accounts	Debit	Credit			
1-Jan						
30-Jun						
31-Dec						

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c)

Bonds Payable Plus: Premium on bonds payable

Solution 7

a)				
	Periodic interest payments (\$1,000,000 X 3%)	\$	30,000	
	Present value factor (20 period annuity, 4%)	X	14,8775	\$ 446,324
	Maturity value	\$	1,000,000	
	Present value factor (20 periods, 4%)	X	0.4564	\$ 456,390
	Issue price of bond			\$ 902,714

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Date	Accounts	Debit	Credit		
1-Jan	Cash	902,714			
	Discount on Bonds Payable	97,286			
	Bonds Payable		1,000,00		
	To record the issuance of \$1,000,000, 5%, 10-year bonds at \$902,714				
30-Jun	Interest Expense	36,109			
	Discount on Bonds Payable		6,10		
	Cash		30,00		
	To record payment of interest (\$1,000,000 X .03 = \$30,000; \$902,714 X .04 = \$36,109)				
31-Dec	Interest Expense	36,353			
	Discount on Bonds Payable		6,35		
	Cash		30,00		
	To record payment of interest (\$1,000,000 X .03 = \$30,000; (\$902,714 + \$6,109) X.04 = \$36,353)				

c)

Bonds Payable	\$ 1,000,000	
Plus: Premium on bonds payable	 84,824	\$ 915,176

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