Solution:

(1)

To calculate the proceeds from the issuance of the debentures, we note that the bonds are issued at par, which means that the proceeds are the same as the face value of the debentures.

Thus, the company raised \$50 million in debentures.

(2)

The analysis for the same is as follows:

EFFECT ON BALANCE SHEET EQUATION (Amounts are in millions of \$)					
Scenario	Assets =	Liabilities +	Stockholders' Equity		
Issuance of	+\$50	+\$50			
debentures	(cash)	(bonds payable)			
First Semi-	-\$1.5		-\$1.5		
annual	(cash)		(interest expense)		
payments					
Maturity	-\$51.5	-\$50	-\$1.5		
payment	(cash)	(bonds payable)	(interest expense)		

(3)
The journal entries for the above are as follows:

JOURNAL ENTRIES FOR THE BOND TRANSACTIONS (Amounts are in millions of \$)					
Scenario	Particulars	Debit	Credit		
Issuance of	Cash	50			
debentures	To Bonds Payable		50		
First semi-	Interest Expense	1.5			
annual	To Cash		1.5		
payments					
Maturity	Interest Expense	50			
Payment	Bonds Payable	1.5			
	To Cash		51.5		

The effect on the accounts has been described already in the above balance sheet equation. You can use them to understand how the bond related accounts get updated.