

MODULE - II

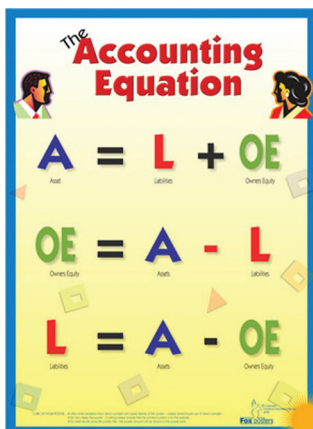
Journal and Other Subsidiary Books



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4

ACCOUNTING EQUATION



You have already studied about Dual Aspect Concept and the various basic Accounting terms viz Assets, Liabilities, Capital, Expenses and Revenue. According to this concept, every transaction affects the business in two ways by the same amount. Suppose, a businessman starts his business with ₹ 3,00,000. In the books of accounts, ₹3,00,000 will be recorded as an asset (Cash) and equivalent amount will be shown as liability towards the owner. In this example, you have noted that assets are equal to liabilities. We can present it in mathematical form as **Assets = Liabilities** this mathematical expression is called Accounting Equation.

Every transaction has its effect on the Accounting equation in such a manner that both sides remain equal. Now, we shall take different business transactions and see their subsequent effect on the accounting equation.



OBJECTIVES

After studying this lesson, you will be able to :

- state the meaning of accounting equation;
- appreciate the importance of accounting equation;
- point out the effect of each aspect of a transaction on the accounting equation;
- establish that assets are equal to liabilities and capital and
- prepare accounting equation from given transactions.

4.1 ACCOUNTING EQUATION

The recording of business transaction in books of accounts is based on a fundamental equation called Accounting Equation. *Whatever business possesses in the form of assets is financed by proprietor or by outsiders.* This equation expresses the equality of assets on one side and the claims of outsiders (liabilities) and owners or proprietors (capital) on the other side. Thus, an Accounting Equation is a mathematical expression which shows that the assets and liabilities of a firm are equal. In Mathematical form,

$$\text{Assets} = \text{Liabilities} + \text{Capital}$$

Accounting Equation

Whenever an asset is introduced in the business, a corresponding liability also appears. A business does not have any amount of its own. Hence, we can say that

Business owns Nothing, And Owes Nothing, (In simple words it can be said that on a particular date any business does not have neither any liability nor any asset of its own)

What it owns and what it owes ?

Let us see the effect of business transactions on Accounting equation. These transactions increase or decrease the assets, liabilities or capital. Every business has certain assets. For example, Sunita started business by contributing ₹2,00,000 as capital. It can be said that asset in the form of Cash has been created for the business concern.

$$\begin{array}{rclcl} \text{Hence,} & \text{Cash} & = & \text{Capital} & \\ & ₹2,00,000 & = & ₹2,00,000 & \end{array}$$

Sunita later on purchases furniture for ₹20,000 and machinery for ₹60,000. Now the position of the assets is as follows:

$$\begin{array}{rclclcl} \text{Capital} & = & \text{Cash} & + & \text{Furniture} & + & \text{Machinery} \\ 2,00,000 & = & 1,20,000 & + & 20,000 & + & 60,000 \\ & & (2,00,000 - 80,000) & & & & \end{array}$$

From the above business transactions, we find that

$$\text{Capital} = \text{Assets}$$

Or

$$\text{Assets} = \text{Capital}$$

Increase or decrease in capital will result in the corresponding increase or decrease in assets. For example, Sunita introduces ₹50,000 as additional capital. Then

$$\begin{array}{rclclcl} \text{Capital} & = & \text{Cash} & + & \text{Furniture} & + & \text{Machinery} \\ 2,00,000 & = & 1,20,000 & + & 20,000 & + & 60,000 \\ + 50,000 & & + 50,000 & & & & \\ \hline 2,50,000 & = & 1,70,000 & + & 20,000 & + & 60,000 \end{array}$$

Every business concern, generally borrows money from outsiders in order to carry on its activities. In other words, every business concern owes money to outsiders. The assets are financed by the funds supplied by proprietors and outsiders. Money borrowed from outsiders is called liability.

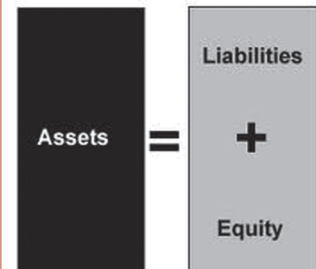
For example, Sunil started business by investing ₹5,00,000 and borrowed from Ajay ₹1,00,000. Hence the amount of asset (cash) is ₹6,00,000. The accounting equation of these two transactions will be :

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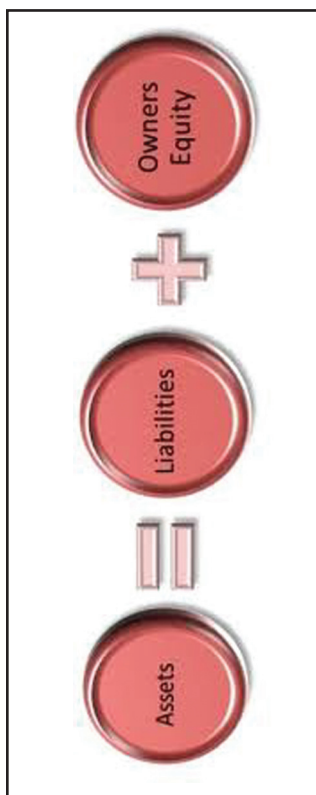


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Accounting Equation

$$\begin{array}{rclcl} \text{Asset (cash)} & = & \text{Capital} & + & \text{Liability (Loan from Ajay)} \\ 6,00,000 & = & 5,00,000 & + & 1,00,000 \end{array}$$

The fact that business receives funds from proprietors and creditors and retains all of them in the form of various assets, it can be presented in terms of an equation as

$$\begin{array}{rclcl} \text{Assets} & = & \text{Capital} & + & \text{Liabilities} & \text{or} & A = C + L \\ \text{Liabilities} & = & \text{Assets} & - & \text{Capital} & \text{or} & L = A - C \\ \text{Capital} & = & \text{Assets} & - & \text{Liabilities} & \text{or} & C = A - L \end{array}$$

Let us consider some more examples :

Rahul started business by introducing ₹3,00,000 as capital. He also invested ₹2,00,000 which he borrowed from Shweta.

$$\begin{array}{rclcl} \text{Assets} & = & \text{Capital} & + & \text{Liabilities (Loan from Shweta)} \\ 5,00,000 & = & 3,00,000 & + & 2,00,000 \end{array}$$

He purchases goods for cash ₹50,000

$$\begin{array}{rclcl} & \text{Assets} & = & \text{Capital} & + & \text{Liabilities} \\ & \text{Cash} + \text{Goods} & & & & \\ \text{Old equation} & 5,00,000 & = & 3,00,000 & + & 2,00,000 \\ \text{effect of} & (-)50,000 + 50,000 & = & 0 & & \\ \text{transaction} & & & & & \end{array}$$

$$\text{New Equation } 4,50,000 + 50,000 = 3,00,000 + 2,00,000$$

He paid Shweta ₹50,000

$$\begin{array}{rclcl} & \text{Assets} & = & \text{Capital} & + & \text{Liabilities} \\ & \text{Cash} + \text{Goods} & & & & \\ \text{Old equation} & 4,50,000 + 50,000 & = & 3,00,000 & + & 2,00,000 \\ \text{effect of} & (-) 50,000 + 0 & = & 0 & & (-)50,000 \\ \text{transaction} & & & & & \end{array}$$

$$\text{New Equation } 4,00,000 + 50,000 = 3,00,000 + 1,50,000$$

In the above example, expenses and revenue have not been considered. They also affect the accounting equation.

Every business concern has to meet certain expenses in its day-to-day operations such as payment of salaries, rent, insurance premium, postage, wages, repairs of machines, etc. These expenses are paid regularly. All expenses reduce the cash balance as they are paid in cash. These expenses reduce the net income of the business. As the net income is the income of proprietor, which is represented by the capital account, so all expenses are deducted from the Capital account.

Similarly, every business concern receives certain revenues during its day to day operations, such as rent received, commission received, etc. Revenue is

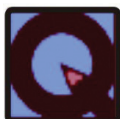
Accounting Equation

added to the cash balance as it is received in terms of cash. Revenue increases the net income of the business and hence, it is added to the capital account.

Now, the Accounting Equation is represented by

$$\begin{array}{rclcl} \text{Assets} & = & \text{Capital} & + & \text{Liabilities} \\ + \text{ revenue (cash)} & & + \text{ revenue} & & \\ - \text{ expenses (cash)} & & - \text{ expenses} & & \end{array}$$

Accounting equation is thus, affected by every business transaction. Any increase or decrease in assets, liabilities and capital can be identified by preparing accounting equation. It also shows that every business transaction satisfies the dual aspect concept of accounting. It also serves as a basis for preparing the Balance Sheet is also called as balance sheet equation.



INTEXT QUESTIONS 4.1

I. Fill in the blanks with correct words :

- i. Accounting equation is also called as _____ equation.
- ii. Asset = _____ + Liabilities
- iii. Accounting equation satisfies the _____ concept of accounting.
- iv. Accounting equation serves as a basis for preparing _____.
- v. Capital = Assets - _____
- vi. Liabilities = _____ - Capital.

II. Multiple Choice Questions

- i. In accounting equation, assets are equal to
 - a. Capital only
 - b. Capital + Liabilities
 - c. Capital – Liabilities
 - d. Liabilities – Capital
- ii. Which of the following lists is a list of assets only?
 - a. Cash, Stock, Debtors, Machinery
 - b. Cash, Creditors, Loan
 - c. Capital, Furniture, Bill payable
 - d. Capital, Prepaid Expenses, Outstanding Expenses
- iii. Which of the following lists is a list of liabilities only?
 - a. Cash, Stock, Debtors
 - b. Cash, Loan, Creditors
 - c. Creditors, Loan, Bank Overdraft, Bills Payable
 - d. Prepaid Rent, Salary, Outstanding Bills receivables

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Accounting Equation

4.2 EFFECT OF TRANSACTIONS ON ACCOUNTING EQUATION

You have learnt that assets, liabilities and capital are the three basic elements of every business transaction, and their relationship is expressed in the form of accounting equation which always remains equal at any point of time, there can be a change in the individual assets, liability or capital, but the two sides of the accounting equation always remain equal. Let us examine this fact by taking up some more transactions and see how these transactions affect the accounting equation.

Suppose, Rajni starts her business and the following transactions take place:

1. She started business with cash ₹5,00,000 introduced as capital.

| | | | | | |
|---------------------------|---------------|---|-------------|---|------------|
| | Assets (cash) | = | Liabilities | + | Capital |
| Effect of the transaction | ₹5,00,000 | = | 0 | + | ₹ 5,00,000 |

This transaction means that ₹5,00,000 have been introduced by Rajni in terms of cash, which is the capital for the business concern. Hence on one hand, the asset (cash) has been created to the extent of ₹5,00,000.

2. She purchased furniture for cash worth ₹50,000

| | | | | | |
|---------------------------|---------------------|---|----------|---|-------------|
| | Assets | = | Capital | + | Liabilities |
| | Cash + Furniture | | | | |
| Old equation | 5,00,000 + 0 | = | 5,00,000 | + | 0 |
| Effect of the transaction | (-) 50,000 + 50,000 | = | 0 | - | 0 |
| New equation | 4,50,000 + 50,000 | = | 5,00,000 | + | 0 |

This transaction has its effect only on the assets, as one asset has been purchased against the other. In this transaction, furniture is purchased against cash. Furniture and cash both are assets. Hence, furniture is increased by ₹ 50,000 and cash is decreased by ₹ 50,000.

3. She purchased goods for cash ₹10,000

| | | | | | |
|---------------------------|----------------------------|---|----------|---|-------------|
| | Assets | = | Capital | + | Liabilities |
| | Cash + Furniture + Goods | = | Capital | + | Liabilities |
| Old equation | 4,50,000 + 50,000 + 0 | = | 5,00,000 | + | 0 |
| Effect of the transaction | - 10,000 + 0 + 10,000 | = | 0 | + | 0 |
| New equation | 4,40,000 + 50,000 + 10,000 | = | 5,00,000 | + | 0 |

Goods purchased is an asset and in return cash paid is also an asset.

Accounting Equation

Hence in this transaction, there is an increase in one asset (goods) and decrease in the other asset (cash) by ₹10,000 leaving the capital and liabilities untouched.

4. She purchased goods from Rohit for ₹40,000

| | Asset | | | = | Capital | + | Liabilities (Rohit) Creditors |
|-----------------------|-----------------|-----------------|-----------------|----------|-----------------|----------|----------------------------------|
| | Cash | + Furniture | + Goods | | | | |
| Old equation | 4,40,000 | + 50,000 | + 10,000 | = | 5,00,000 | + | 0 |
| Effect of transaction | 0 | + 0 | + 40,000 | = | 0 | + | 40,000 |
| New equation | 4,40,000 | + 50,000 | + 50,000 | = | 5,00,000 | + | 40,000 |

In this transaction, goods have been purchased on credit from Rohit, hence there is an increase in the assets (goods) by ₹40,000 as the business concern now owes money to Rohit.

In any transaction, whenever cash payment is not mentioned and the name of the seller is given, then the transaction is always a credit transaction.

5. She sold goods to Rahul for ₹20,000 costing ₹15,000.

| | Assets | | | | = | Capital | + | Liabilities (Rohit) |
|---------------------------|-----------------|-----------------|-----------------|-------------------|----------|-----------------|----------|---------------------|
| | Cash | + Furniture | + Goods | + Debtors (Rahul) | | | | |
| Old equation | 4,40,000 | + 50,000 | + 50,000 | + 0 | = | 5,00,000 | + | 40,000 |
| Effect of the Transaction | 0 | + 0 | - 15,000 | + 20,000 | = | + 5,000 | + | 0 |
| New equation | 4,40,000 | + 50,000 | + 35,000 | + 20,000 | = | 5,05,000 | + | 40,000 |

In this transaction, goods have been sold on credit to Rahul, so there is a decrease in the assets (goods) by ₹15,000, and an increase in the assets Rahul (Debtors) by ₹20,000 as money has to be collected from Rahul. In this process, the proprietor has a gain of ₹5,000 which is added to the capital.

Whenever goods are sold and nothing about cash received is mentioned and the name of the purchaser is given then that transaction is treated as credit transaction.

6. She paid salaries to clerks for ₹12,000

| | Assets | | | | = | Capital | + | Liabilities (Rohit) |
|---------------------------|-----------------|-----------------|-----------------|-------------------|----------|-----------------|----------|---------------------|
| | Cash | + Furniture | + Goods | + Debtors (Rahul) | | | | |
| Old Equation | 4,40,000 | + 50,000 | + 35,000 | + 20,000 | = | 5,05,000 | + | 40,000 |
| Effect of the transaction | - 12,000 | + 0 | + 0 | + 0 | = | - 12,000 | + | 0 |
| New Equation | 4,28,000 | + 50,000 | + 35,000 | + 20,000 | = | 4,93,000 | + | 40,000 |

In this transaction, salaries paid to clerks is an expense for the business concern. Since salary is paid in terms of cash, hence cash as an asset is reduced by ₹12,000 and as all expenses reduce the capital, so capital is also reduced by ₹12,000.

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| ALORE Acronym | | If You | | You Must | |
|---------------|-------------|--------|----|----------|----|
| A/c Type | | Dr | Cr | Cr | Dr |
| Assets | Liabilities | Dr | Cr | Cr | Dr |
| Owners Equity | Revenue | Cr | Cr | Dr | Dr |
| | Expense | Cr | Dr | Dr | Cr |

Accounting Equation

7. Cash paid to Rohit ₹20,000

| | Assets | | | | = | Capital | + | Liabilities (Rohit) |
|---------------------------|----------|-----------|----------|-----------------|---|----------|---|---------------------|
| | Cash | Furniture | Goods | Debtors (Rahul) | | | | |
| Old Equation | 4,28,000 | + 50,000 | + 35,000 | + 20,000 | = | 4,93,000 | + | 40,000 |
| Effect of the transaction | - 20,000 | + 0 | + 0 | + 0 | = | 0 | - | (-) 20,000 |
| New Equation | 4,08,000 | + 50,000 | + 35,000 | + 20,000 | = | 4,93,000 | + | 20,000 |

In this transaction, cash has been paid to the creditors, (Rohit) ₹20,000, hence cash as an asset is reduced by ₹20,000 and also the liability (Rohit) is reduced by ₹20,000.

From the above transactions, now you are clear as to how every transaction has its effect on the accounting equation without disturbing the equality of the two sides.

4.3 COMBINATIONS OF THE EQUATION

The inter-relationship between assets, liabilities and capital can be expressed in various forms. Nine combinations can be created.

Increase or decrease in one has a corresponding increase or decrease in itself or the other.

Let us study the nine combinations with examples.

- i) Increase in asset with corresponding increase in capital
Example : Started business with cash.
- ii) Increase in asset with corresponding increase in liabilities.
Example : Goods purchased on credit.
- iii) Decrease in asset with corresponding decrease in capital
Example : Cash withdrawn from the business by the proprietor for personal use.
- iv) Decrease in asset with corresponding decrease in liability
Example : Cash paid to the creditor.
- v) Increase and decrease in assets
Example : Furniture purchased for cash, Goods purchased for cash, etc.
- vi) Increase and decrease in liabilities
Example : Payment made to creditors by taking loan from bank.
- vii) Increase and decrease in capital.
Example : Interest on Capital
- viii) Increase in liabilities and decrease in capital.
Example : Wages due but not yet paid, outstanding salaries
- ix) Increase in capital and decrease in liabilities.
Example : Conversion of loan (provided by the owner) into capital.

Let us consider another Illustration and study the accounting equation once again :

Accounting Equation

Rules for Accounting Equations

- i. **Capital** : When capital is increased, it is credited (+) and when some part of the capital is withdrawn, i.e., drawings are made, it is debited (-).
- ii. **Revenue** : Owner's equity (Capital) is increased by the amount of revenue.
- iii. **Expenses** : Owner's equity (Capital) is decreased by the amount of expenses.
- iv. **Outsider's Equity** : When liabilities are increased, outsiders' liabilities are credited (+).
- v. **Assets** : If there is an increase in Assets, the increase is debited (+) in the Asset Account. If there is decrease in Assets, the decrease is credited (-) in the Asset Account.
- vi. **Effects of Outstanding Expenses** : Increase in liabilities and decrease in capital.
- vii. **Accrued Income** : Increase in asset and increase in capital.
- viii. **Income Received in Advance** : Increase in asset (as cash) and increase in liabilities.
- ix. **Interest on Capital** is an expense for the business, and thus, profit is reduced by the amount and since interest on capital is an income for the owner it is added to capital. So the net effect of this transaction is nil on capital.
- x. **Asset and Liabilities** will not be affected by interest on capital and interest on drawings.

Illustration 1 : Show the effect of following transactions on the Accounting Equation.

| | |
|---|----------|
| 1. Shashi started business with : | ₹ |
| Cash | 2,00,000 |
| Goods | 1,20,000 |
| Machine | 80,000 |
| 2. He purchased goods for cash | 50,000 |
| 3. He sold goods (costing ₹20,000) | 25,000 |
| 4. He purchased goods from Ravi | 70,000 |
| 5. He paid cash to Ravi in full settlement | 69,000 |
| 6. He sold goods to Vikas (costing ₹54,000) | 60,000 |
| 7. He received payment from Vikas and discount allowed ₹2,000 | 58,000 |
| 8. Salaries paid by him | 40,000 |
| 9. Rent outstanding | 4,000 |
| 10. Prepaid insurance | 1,000 |
| 11. Commission received by him | 3,000 |
| 12. Amount withdrawn by him for personal use | 30,000 |
| 13. Interest on capital invested by him | 2,000 |

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Accounting Equation

Solution

| S.No. | Transaction | Assets | | | | = | | | Liabilities | | | + Capital | | |
|-------|--|----------|---------|-----------|-----------|-------------------|-------------|-----------------------|-------------|-----------|---|-----------|---|----------|
| | | Cash | + Goods | + Machine | + Debtors | + Prepaid expense | = Creditors | + Outstanding expense | + Capital | + Capital | | | | |
| 1. | Started business with Cash ₹ 2,00,000 Goods ₹ 1,20,000 Machine ₹ 80,000 | 2,00,000 | + | 1,20,000 | + | 80,000 | + | 0 | + | 0 | + | 0 | + | 4,00,000 |
| 2. | Goods purchased for ₹ 50,000 New Equation | -50,000 | + | 50,000 | + | 0 | + | 0 | + | 0 | + | 0 | + | 0 |
| | | 1,50,000 | + | 1,70,000 | + | 80,000 | + | 0 | + | 0 | + | 0 | + | 4,00,000 |
| 3. | Sold goods (Cost ₹ 20,000) for ₹ 25,000 New Equation | 25,000 | - | 20,000 | + | 0 | + | 0 | + | 0 | + | 0 | + | 5,000 |
| | | 1,75,000 | + | 1,50,000 | + | 80,000 | + | 0 | + | 0 | + | 0 | + | 4,05,000 |
| 4. | Purchased goods from Ravi ₹ 70,000 New Equation | 0 | + | 70,000 | + | 0 | + | 0 | + | 70,000 | + | 0 | + | 0 |
| | | 1,75,000 | + | 2,20,000 | + | 80,000 | + | 0 | + | 70,000 | + | 0 | + | 4,05,000 |
| 5. | Payment made to Ravi in full settlement ₹ 69,000 New Equation | -69,000 | + | 0 | + | 0 | + | 0 | + | -70,000 | + | 0 | + | 1,000 |
| | | 1,06,000 | + | 2,20,000 | + | 80,000 | + | 0 | + | 0 | + | 0 | + | 4,06,000 |
| 6. | Goods of ₹ 54,000 Sold for ₹ 60,000 New Equation | 0 | - | 54,000 | + | 0 | + | 60,000 | + | 0 | + | 0 | + | 6,000 |
| | | 1,06,000 | + | 1,66,000 | + | 80,000 | + | 60,000 | + | 0 | + | 0 | + | 4,12,000 |

Accounting Equation

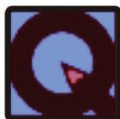
| | | | | | | | | | | | | | | | | | |
|--|-----------------|---|----------|---|--------|---|--------|---|-------|---|-------|---|-------|---|---|---|----------|
| 7. Payment of ₹ 58,000 received from Vikas and discount ₹ 2,000 is allowed New Equation | 58,000 | + | 0 | + | 0 | - | 60,000 | + | 0 | = | 0 | + | 0 | + | 0 | + | -2,000 |
| 8. Salaries paid ₹ 40,000 New Equation | 1,64,000 | + | 1,66,000 | + | 80,000 | + | 0 | + | 0 | = | 0 | + | 0 | + | 0 | + | 4,10,000 |
| 9. Rent Outstanding ₹ 4,000 New Equation | -40,000 | + | 0 | + | 0 | + | 0 | + | 0 | = | 0 | + | 0 | + | 0 | + | 40,000 |
| 10. Prepaid Insurance ₹ 1,000 New Equation | 1,24,000 | + | 1,66,000 | + | 80,000 | + | 0 | + | 0 | = | 0 | + | 0 | + | 0 | + | 3,70,000 |
| 11. Commission received ₹ 3,000 New Equation | 0 | + | 0 | + | 0 | + | 0 | + | 0 | = | 0 | + | 4,000 | + | 0 | + | 4,000 |
| 12. Amount with drawn ₹ 30,000 New Equation | 1,24,000 | + | 1,66,000 | + | 80,000 | + | 0 | + | 0 | = | 0 | + | 4,000 | + | 0 | + | 3,66,000 |
| 13. Interest on Capital ₹ 2,000 New Equation | -1,000 | + | 0 | + | 0 | + | 0 | + | 1,000 | = | 0 | + | 0 | + | 0 | + | 0 |
| Total | 1,23,000 | + | 1,66,000 | + | 80,000 | + | 0 | + | 1,000 | = | 1,000 | + | 4,000 | + | 0 | + | 3,66,000 |
| | 3,000 | + | 0 | + | 0 | + | 0 | + | 0 | = | 0 | + | 0 | + | 0 | + | 3,000 |
| | 1,26,000 | + | 1,66,000 | + | 80,000 | + | 0 | + | 1,000 | = | 1,000 | + | 4,000 | + | 0 | + | 3,69,000 |
| | -30,000 | + | 0 | + | 0 | + | 0 | + | 0 | = | 0 | + | 0 | + | 0 | + | 30,000 |
| | 96,000 | + | 1,66,000 | + | 80,000 | + | 0 | + | 1,000 | = | 1,000 | + | 4,000 | + | 0 | + | 3,39,000 |
| | 0 | + | 0 | + | 0 | + | 0 | + | 0 | = | 0 | + | 0 | + | 0 | + | -2,000 |
| | 96,000 | + | 1,66,000 | + | 80,000 | + | 0 | + | 1,000 | = | 1,000 | + | 4,000 | + | 0 | + | 3,39,000 |
| | 3,43,000 | | | | | | | | | | | | | | | | |
| | 3,43,000 | | | | | | | | | | | | | | | | |

MODULE - II

Journal and Other Subsidiary Books



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MODULE - II*Journal and Other
Subsidiary Books***Notes****Accounting Equation****INTEXT QUESTIONS 4.2****Multiple Choice Questions**

- i. Goods purchased from Ritu for ₹60,000. What effect will the transaction have on the Accounting Equation?
 - a) Increase in assets and increase in liability.
 - b) Increase and decrease in asset.
 - c) Increase and decrease in liability.
 - d) Decrease in asset and decrease in liability.
- ii. Rent outstanding ₹ 2,000. What effect will this transaction have on the Accounting Equation?
 - a) Increase and decrease in asset.
 - b) Increase and decrease in liability.
 - c) Increase in liability and increase in asset.
 - d) Increase in liability and decrease in Capital.
- iii. Interest on drawings amounted to ₹5,000. What effect will this transaction have on the Accounting Equation?
 - a) Increase and decrease in asset.
 - b) Increase and decrease in liability.
 - c) Increase and decrease in Capital.
 - d) Increase in asset and Increase in liability.

**WHAT YOU HAVE LEARNT**

- Business transaction means exchange of goods and/or services for value and any other financial activity undertaken in the course of the business.
- Every business transaction is recorded on the basis of Accounting Equation.
- Accounting equation is a statement showing the equality of assets on one hand and the capital and liabilities on the other.
- $\text{Assets} = \text{Capital} + \text{Liabilities}$ ($A = C + L$)
- Every business transaction has its effect on the Accounting Equation.
- Business owns nothing and owes nothing. What it owns and what other owes to business.
- Under any circumstance, the equality of the Accounting Equation remains same.
- The effect of expenses and revenue is always on the Capital Account. Expenses reduce the Capital and revenues increase it.
- Every business transaction satisfies the Dual Aspect Concept.

Accounting Equation

- Any increase or decrease in one element of Accounting Equation has a corresponding increase or decrease on the other element or itself.



TERMINAL EXERCISE

- Answer the following question in (1-10 words).
 - If a firm borrows a sum of money, what will be its effect on the Accounting Equation?
 - Give two examples – one showing the effect only on assets and the other on liabilities only.
 - How will you show income received in advance in the accounting equation?
 - If goods costing ₹. 8,000 are sold for ₹ 8,500, how will the capital be affected?
- Answer the following in (30-50 words)
 - What is an Accounting Equation?
 - How are revenue and expense treated in Accounting Equation?
- “Accounting Equation remains intact under all circumstances” Justify this statement with the help of examples (100-150 words)
- Prepare Accounting Equation on the basis of the following:
 - Karan started business with cash ₹1,60,000.
 - He purchased furniture for cash ₹16,000.
 - He paid rent ₹1,600.
 - He purchased goods on credit ₹24,000.
 - He sold goods costing ₹16,000 for ₹40,000 for cash.
- Akshay had the following transactions:

| | ₹ |
|---|----------|
| i. Commenced business with cash | 2,50,000 |
| ii. Purchased goods for cash | 1,00,000 |
| iii. Salaries paid | 2,500 |
| iv. Sold goods for cash ₹2,00,000 costing | 1,50,000 |
| v. Rent outstanding | 500 |
| vi. Purchased goods on credit | 1,50,000 |
| vii. Purchased Machinery on credit | 25,000 |
| viii. Purchased Motorcycle for personal use | 25,000 |
| ix. Purchased building for cash | 1,00,000 |

Use Accounting Equation to show the effect of the above transactions on the assets, liabilities and capital.

MODULE - II

Journal and Other Subsidiary Books



Notes

MODULE - II

Journal and Other Subsidiary Books



Notes

Accounting Equation

6. Show the Accounting Equation on the basis of the following transactions :

| | ₹ |
|--|----------|
| i. Shivam Started business | |
| Cash | 5,00,000 |
| Goods | 2,00,000 |
| ii. He purchased machinery for cash | 2,50,000 |
| iii. He purchased goods from Ramesh | 1,00,000 |
| iv. He sold goods to Suresh (Cost ₹25,000) | 30,000 |
| v. Paid insurance premium | 5,000 |
| vi. Salary outstanding | 10,000 |
| vii. Depreciation of Machinery | 25,000 |
| viii. Interest on Capital | 3,000 |
| ix. Amount withdrawn for personal use | 18,000 |
| x. Interest on drawings | 900 |
| xi. Rent received in advance | 1,500 |
| xii. Cash paid to Ramesh | 50,000 |
| xiii. Cash received from Suresh | 15,000 |



ANSWER TO INTEXT QUESTIONS

- 4.1 I.** (i) balance sheet (ii) capital
(iii) dual aspect (iv) balance sheet
(v) liabilities (vi) assets

- II.** (i) b (ii) a (iii) c

- 4.2** (i) a (ii) d (iii) c

ACTIVITIES FOR YOU

- Enquire from various business organisations and list various methods of maintaining the record of transactions.
- Write down ten business transactions and prepare the accounting equation for them and ensure that they are equal at each and every step.