**Practice Set- 1**

1. Find the simple interest in each of the following problems:

|  |  |  |  |
| --- | --- | --- | --- |
| **Q. No.**  | **Principal (P)** | **Interest Rate (r)** | **Time (t)** |
| 1. | SR 326.70 | 16 % | 4 months |
| 2. | SR 761.35 | 8 % | 5 months |
| 3. | SR 540.00 | 7 % | 1 year |
| 4. | SR 35.00 | 12 % | 18 months |
| 5. | SR 346.40 | 14 % | 1 year, 7 months |

1. Determine the number of days in each of the following problems by (a) the exact time method and (b) the approximate time method:
2. September 9, 1995 to October 28, 1995.
3. June 16, 1995 to August 15, 1995.
4. January 6, 1997 to January 30, 1998.
5. October 10, 1998 to May 7, 1999.
6. December 16, 1998 to April 9, 1999.

**Practice Set- 2**

1. Express the time in years in each of the following problems for computing (a) ordinary interest, and (b) exact interest.
2. June 6 to September 30
3. July 10 to November 7
4. May 21 to July 5
5. January 4 to February 3
6. August 17 to December 8.
7. In each of the following cases, find (a) the ordinary interest by formula method and (b) the exact interest:

|  |  |  |  |
| --- | --- | --- | --- |
| Q. No. | Principal (P) | Interest Rate (r) | Time (t) |
| 1. | SR 408 | 18 % | 15 days |
| 2. | SR 318 | 10 % | 72 days |
| 3. | SR 720.48 | 12 % | 70 days |
| 4. | SR 2192 | 9 % | 45 days |
| 5. | SR 2970 | 8 % | 80 days |

1. For each of the following exact interests (Ie), find the ordinary interest (Io):

|  |  |  |
| --- | --- | --- |
| 1. SR 28.80
 | 1. SR 5.04
 | 1. SR 6.48
 |
| 1. SR 43.20
 | 1. SR 1.44
 | 1. SR 4.32
 |

1. For each of the following ordinary interest (Io), find the exact interest (Ie):

|  |  |  |
| --- | --- | --- |
| 1. SR 36.50
 | 1. SR 2.92
 | 1. SR 3.65
 |
| 1. SR 58.40
 | 1. SR 2.19
 | 1. SR 5.84
 |

**Practice Set- 3**

1. In each of the following cases, find the unknown values:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Q. No.** | **Principal (P)** | **Annual Interest Rate (r)** | **Time (t)** | **Simple Interest (SI)** | **Amount (A)** |
| 1. | SR 120 | 12 % | 30 days | ? | ? |
| 2. | SR 2500 | ? | 45 days | ? | SR 2512.50 |
| 3. | SR 900 | 6 % | ? days | SR 11.25 | ? |
| 4. | SR 2000 | 18 % | ? years | SR 720.00 | ? |
| 5. | SR 2250 | ? | $2\frac{1}{2}$ years | ? | SR 2587.50 |

1. Statement problems:
2. Find the simple interest on SR 5400 at 7 % for 45 days. What is the amount?
3. A man borrowed SR 1000 at 10 % for 5 months. How much must he repay?
4. A man borrowed SR 1350 and paid SR 1372.50 after 4 months. What was the interest rate charged for the debt?
5. How many months are required for SR 260 to yield SR 3.90 interest at 6 %?
6. How many years will be required for SR 55 to yield SR 11 interest at 10%?

**Practice Set- 4**

1. In each of the following cases, find the principal:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Interest rate** | **Time** | **Interest** | **Amount** |
| 1. | …… | …… | SR 16.42 | SR 344.82 |
| 2. | 10% | 2 years | SR 60.00 | ……. |
| 3. | 21% | 6 months | …….. | SR 6077.50 |
| 4. | ….. | …….. | SR 24.38 | SR 487.00 |
| 5. | 15% | 60 days | SR 75.00 | ……… |

1. Statement problems:
2. What principal will yield SR 25 interest in 2 months at 10%?
3. What principal will accumulate to SR 644 in 2 years at 20% simple interest?
4. How much money you must invest at 16% for 2 years in order to receive SR 4620 at the end of the second year?
5. A debt of SR 1800 is due in $1\frac{1}{2}$ years. If the debt is settle now and the simple interest rate of 8% is allowed, what are the present value and the simple discount?
6. (a) What is the present value of SR 1000 due in 2 years if the money is worth 7%?

(b) How much is the simple discount?

**Practice Set- 5**

1. In each of the following problems, find the unpaid balance on the indicated date by (a) the Merchants’ Rule and (b) the United States Rule:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Ist Partial Payment | IInd Partial Payment |  |
| *Q. No.* | *Date of Loan* | *Principal* | *Rate of Interest* | *Date*  | *Amount* | *Date*  | *Amount* | *Date of Unpaid Balance* |
| 1. | 4/1/95 | SR 1000 | 18% | 5/1 | SR 300 | 6/30 | SR 500 | 7/30/95 |
| 2. | 9/24/96 | SR 840 | 7% | 11/3 | SR 300 | ….. | …… | 12/23/96 |
| 3. | 11/15/98 | SR 4200 | 5% | 1/14 | SR 3000 | ….. | …… | 4/4/99 |
| 4. | 3/25/99 | SR 3700 | 12% | 6/23 | SR 1000 | 8/22 | SR 2000 | 10/21/99 |
| 5. | 5/6/98 | SR 4800 | 18% | 6/5 | SR 2400 | 11/2 | SR 1800 | 1/31/99 |

1. Statement Problems:
2. A note for SR 6000 with an interest rate of 8%, date March 18, 1999, has the following partial payments: May 17, SR 2000; July1, SR 2000; and September 14, SR 1000. Find the balance due on December 13, 1999, by using the Merchants’ Rule.
3. A note for SR 6000 with an interest rate of 8%, date March 18, 1999, has the following partial payments: May 17, SR 2000; July1, SR 2000; and September 14, SR 1000. Find the balance due on December 13, 1999, by using the United States Rule.
4. On April 25, 2000, you borrowed SR 4000 at 4% interest. You paid SR 1000 on June 24, SR 500 on July24, SR 5 on August 23, and SR 2000 on September 22. Find the balance due November 21, 2000, by the Merchants’ Rule.
5. On April 25, 2000, you borrowed SR 4000 at 4% interest. You paid SR 1000 on June 24, SR 500 on July24, SR 5 on August 23, and SR 2000 on September 22. Find the balance due November 21, 2000, by the United States Rule.

**Practice Set- 6**