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Class XI

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COMMERCIAL ARITHMETIC

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M. Com., Ph. D.

Recipient of

Rashtriya Gaurav Award,

Asian Admirable Achiever and

Included in Asia/Pacific

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&

Samresh Chauhan

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Syllabus

Time : 3 Hours

Marks : 100

A : ELEMENTARY COMMERCIAL ARITHMETIC

		<i>Periods</i>	<i>Marks</i>
Unit 1	Approximation	10	5
Unit 2	Contracted Method of Multiplication	10	5
Unit 3	Contracted Method of Division	10	5
Unit 4	Ratio	10	5
Unit 5	Proportion	20	10
Unit 6	Table of Nine Values	20	10
Unit 7	Chain Rule	20	10
Total (A)		100	50

B : ADVANCED COMMERCIAL ARITHMETIC

		<i>Periods</i>	<i>Marks</i>
Unit 1	Percentage	20	10
Unit 2	Simple Interest	20	10
Unit 3	Compound Interest	20	10
Unit 4	Profit & Loss	20	10
Unit 5	Discount & Brokerage	20	10
Total (B)		100	50
Grand Total (A + B)		200	100

A. ELEMENTARY COMMERCIAL ARITHMETIC

(Periods 100)

Unit 1 : Approximation

(Periods 10)

- Nearest to Ten, Hundred, Thousands, Lakh.
- Nearest to Significant Figures, Significant Decimal Points.
- Nearest to Hundredth, Thousandth, Ten Thousandth Places.

(ii)

Unit 2: Contracted Method of Multiplication (Periods 10)

- (a) Nearest to Decimal Places.
- (b) Nearest to Ten, Thousands, Lacs.
- (c) Nearest to Significant Figures.

Unit 3: Contracted Method of Division (Periods 10)

- (a) Nearest to Decimal Places.
- (b) Nearest to Ten, Thousands, Lacs.
- (c) Nearest to Significant Figures.

Unit 4: Ratio (Periods 10)

- (a) Simple

Unit 5: Proportion (Periods 20)

- (a) Direct Proportion
- (b) Inverse Proportion

Unit 6: Table of Nine Values (Periods 20)

- (a) Calculation of Cost by preparing Table of Nine Values—Only Current Indian and English Currency.
- (b) English Currency.

Unit 7: Chain Rule (Periods 20)

- (a) Finding out Unknown Value.
- (b) Finding out Unknown Currency.
- (c) Finding out Par of Exchange between Two Countries.

B. ADVANCED COMMERCIAL ARITHMETIC (Periods 100)

Unit 1: Percentage (Periods 20)

- (a) Simple Type Question.
- (b) Reduction of Consumption, Calculation of Pass Percentage.
- (c) To Find out Percentage of Two Commodities in Mixture.

Unit 2: Simple Interest (Periods 20)

- (a) Calculation of Simple Interest.
- (b) Third, Tenth and Tenth Rule.
- (c) Calculation of Bank Interest.
- (d) Calculation of Provident Interest.

Unit 3: Compound Interest (Periods 20)

- (a) Calculation of Compound without Formula.
- (b) Calculation of Compound by Formula Method.
- (c) Calculation of Compound by Logarithm Method.

(iii)

Unit 4: Profit & Loss

(Periods 20)

- (a) Calculation of Profit or Loss.
- (b) Calculation of Cost.
- (c) Calculation of Sale Price.

Unit 5: Discount and Brokerage

(Periods 20)

- (a) Calculation of Simple Discount.
- (b) Calculation of Trade and Cash Discount.
- (c) Calculation of Successive Discount.
- (d) Calculation of Brokerage in case of Purchase and Sale of Land.
- (e) Calculation of Brokerage in case of Purchase and Sale of Shares and Debenture.

Learning Points

1. 1 Pound £	= 100 Pence (p)		
1 Dollar (\$)	= 100 Cents		
1 Rubal	= 100 Copek		
1 Franc	= 100 Centimes		
2. 1 Acre	= 4840 Square yard		
1 Acre	= 0.404686 Hectare		
1 Hectare	= 2.47105 Acre		
1 Katta	= 720 Square Feet		
3. 1 Metre	= 39.37 Inches		
1500 Metres	= 1640.45 Yards		
1000 Metres	= 1 Kilometre		
1 Kilometre	= 5/8 or 0.62 Mile		
1 Mile	= 1.61 Kilometre		
4. 1 Quintal	= 2.68 Man		
1 Mund	= 0.37 Quintal = 37 Kilogram		
1 Kilogram	= 1000 Grams		
1 Ton	= 1.016 Metric Ton		
1 Metric Ton	= 0.98 Ton		
5. 4 Farthing	= 1 Pence (P)		
12 Pence (d)	= 1 Shilling (s)		
20 Shilling (s)	= 1 Pound (£)		
240 Pence (d)	= 1 Pound		
6. <i>Month</i>	<i>Day</i>	<i>Month</i>	<i>Day</i>
January	31	July	31
February	28	August	31
March	31	September	30
April	30	October	31
May	31	November	30
June	30	December	31

(ii)

There are 29 days in February in a Leap Year. Year, which can be divided by four, is called 'Leap Year'.

- | | |
|-------------------|------------------|
| 7. 28 Pounds (lb) | = 1 Quarter (Qr) |
| 4 Quarter (Qr) | |
| or | |
| 112 Pounds (lbs) | = 1 Hunder (Cwt) |
| 20 Hunder (Cwt) | = 1 Ton |
| 8. 12 Inches | = 1 Foot (ft) |
| 3 Feet (Ft) | = 1 Yard |
| 1760 Yards | = 1 Mile |
| 220 Yards | = 1 Furlong |
| 8 Furlong | = 1 Mile |

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