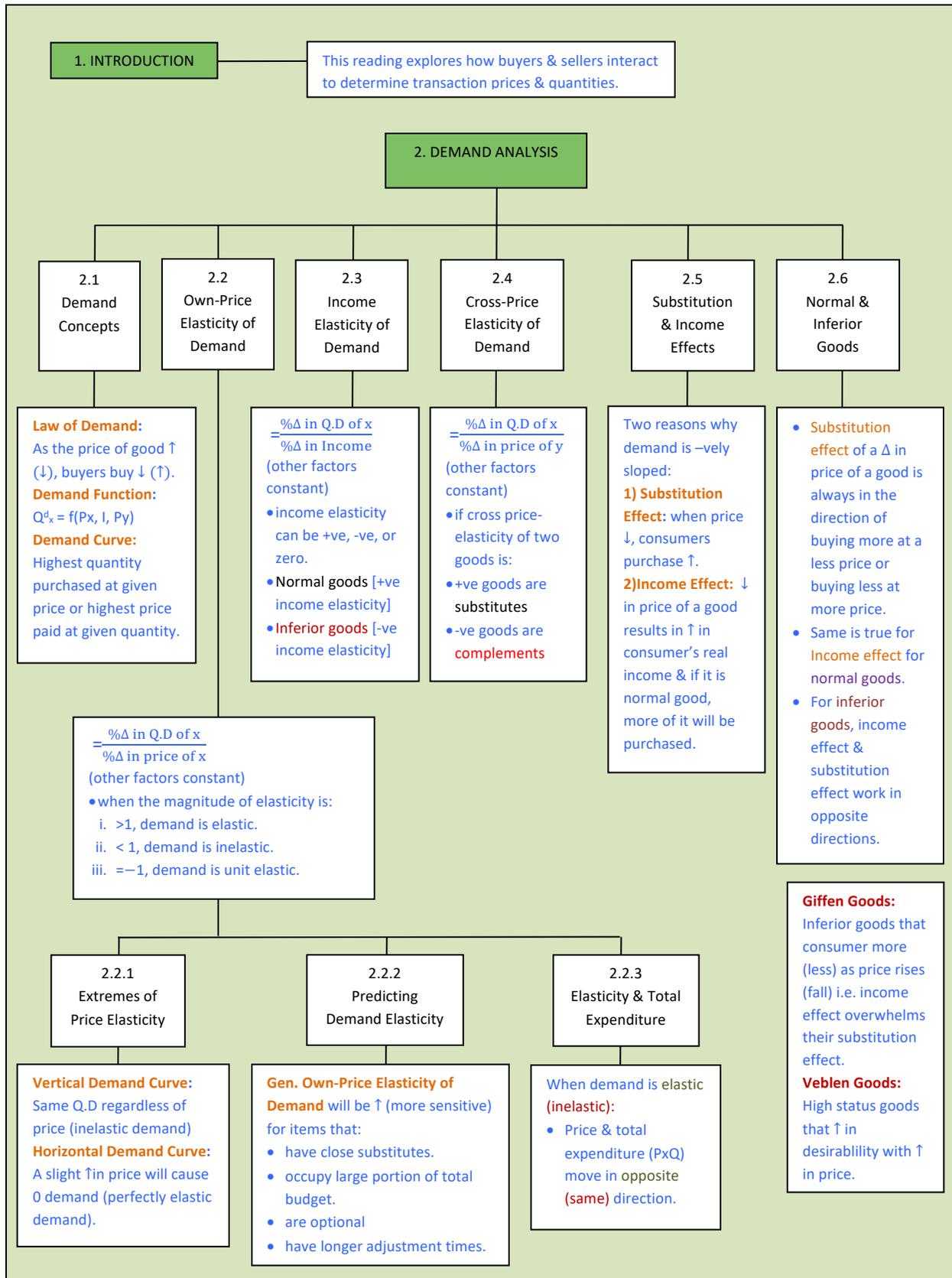
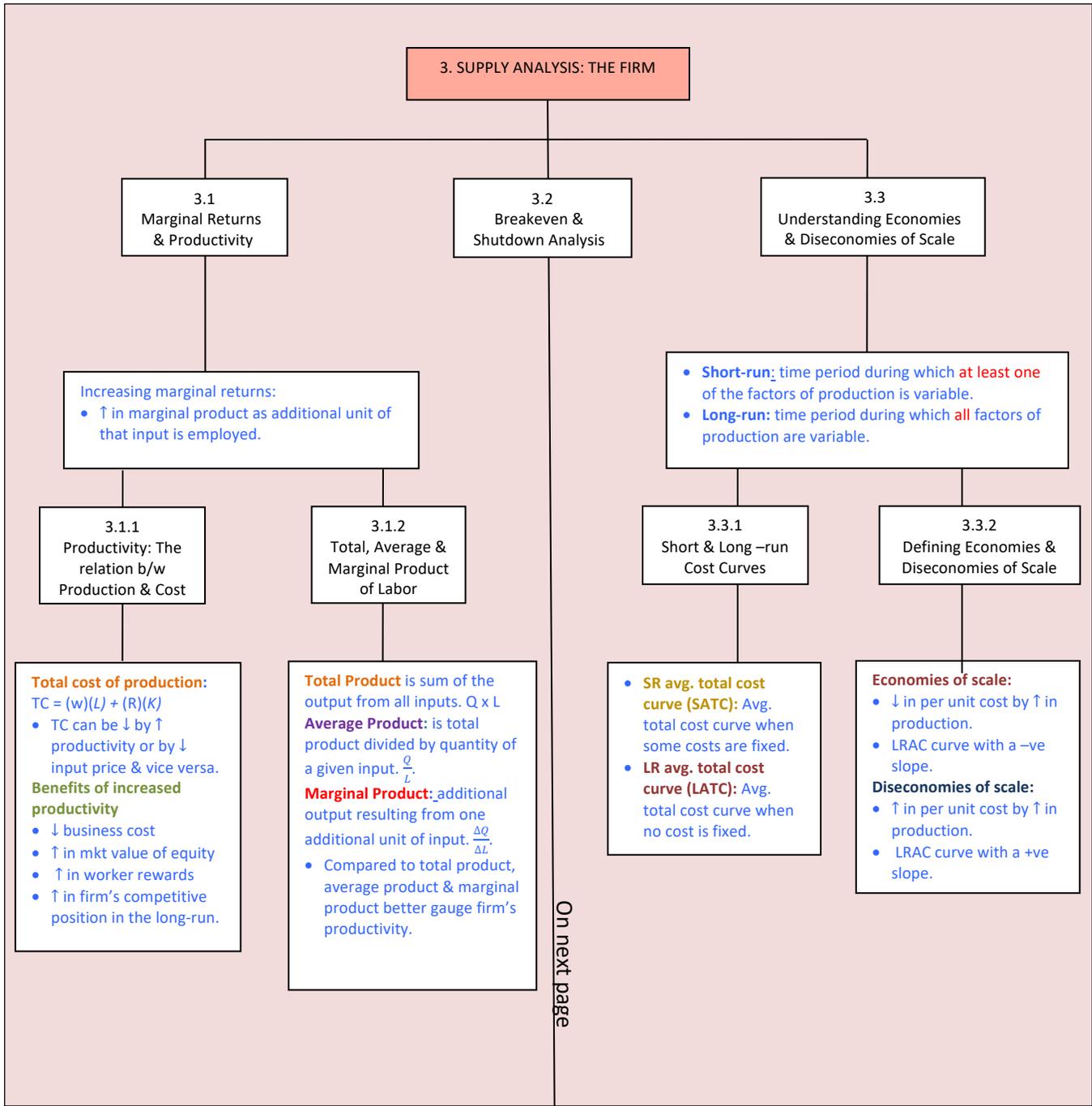
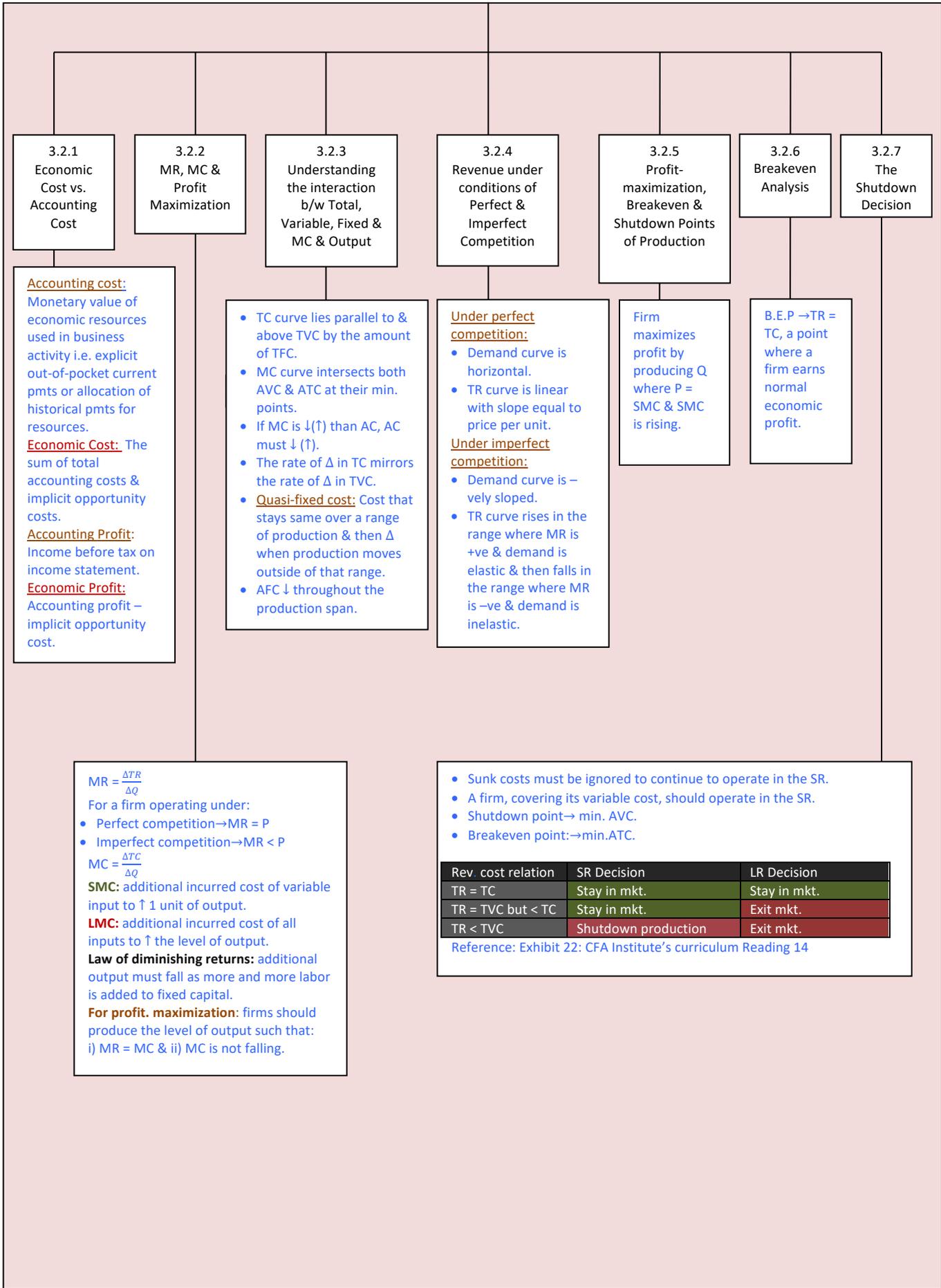


“TOPICS IN DEMAND & SUPPLY ANALYSIS”

Gen. = Generally
 MR. = marginal revenue
 MC. = marginal cost
 Prof. max. = profit maximization
 Q.D = Quantity Demanded
 Pmt. = payments
 LR= long-run
 SR=short-run
 SMC=short-run marginal cost
 LMC = long-run marginal cost
 MP = marginal productivity







3.2.1 Economic Cost vs. Accounting Cost

Accounting cost:
 Monetary value of economic resources used in business activity i.e. explicit out-of-pocket current pmts or allocation of historical pmts for resources.
Economic Cost: The sum of total accounting costs & implicit opportunity costs.
Accounting Profit: Income before tax on income statement.
Economic Profit: Accounting profit – implicit opportunity cost.

3.2.2 MR, MC & Profit Maximization

$MR = \frac{\Delta TR}{\Delta Q}$
 For a firm operating under:
 • Perfect competition → $MR = P$
 • Imperfect competition → $MR < P$
 $MC = \frac{\Delta TC}{\Delta Q}$
SMC: additional incurred cost of variable input to ↑ 1 unit of output.
LMC: additional incurred cost of all inputs to ↑ the level of output.
Law of diminishing returns: additional output must fall as more and more labor is added to fixed capital.
For profit maximization: firms should produce the level of output such that:
 i) $MR = MC$ & ii) MC is not falling.

3.2.3 Understanding the interaction b/w Total, Variable, Fixed & MC & Output

- TC curve lies parallel to & above TVC by the amount of TFC .
- MC curve intersects both AVC & ATC at their min. points.
- If MC is ↓(↑) than AC , AC must ↓ (↑).
- The rate of Δ in TC mirrors the rate of Δ in TVC .
- **Quasi-fixed cost:** Cost that stays same over a range of production & then Δ when production moves outside of that range.
- AFC ↓ throughout the production span.

3.2.4 Revenue under conditions of Perfect & Imperfect Competition

- Under perfect competition:**
- Demand curve is horizontal.
 - TR curve is linear with slope equal to price per unit.
- Under imperfect competition:**
- Demand curve is – vely sloped.
 - TR curve rises in the range where MR is +ve & demand is elastic & then falls in the range where MR is –ve & demand is inelastic.

3.2.5 Profit-maximization, Breakeven & Shutdown Points of Production

Firm maximizes profit by producing Q where $P = SMC$ & SMC is rising.

3.2.6 Breakeven Analysis

$B.E.P \rightarrow TR = TC$, a point where a firm earns normal economic profit.

3.2.7 The Shutdown Decision

- Sunk costs must be ignored to continue to operate in the SR.
- A firm, covering its variable cost, should operate in the SR.
- Shutdown point → min. AVC .
- Breakeven point → min. ATC .

Rev. cost relation	SR Decision	LR Decision
$TR = TC$	Stay in mkt.	Stay in mkt.
$TR = TVC$ but $< TC$	Stay in mkt.	Exit mkt.
$TR < TVC$	Shutdown production	Exit mkt.

Reference: Exhibit 22: CFA Institute's curriculum Reading 14