

# Chapter 2: Strategy and the Management of Technology and Innovation

#### MULTIPLE CHOICE

- 1. Strategy can be defined as:
  - a. Process whereby new and improved products, processes, materials, and services are developed and transferred to a new plant or market where they are appropriate.
  - b. The critical tools, methods, and systems employed in the creation of goods or in providing services
  - c. A coordinated set of actions that fulfill the firm's objectives, purposes, and goals.
  - d. The systematic gathering of information that leads to the generation of feasible alternatives for the firm.
  - e. An industrial integration view of the firm based on industrial organization economics.

### ANS: C

- 2. Linux is an example of continuous technology because:
  - a. the changes in the program are dramatic
  - b. the changes in the logic of the system happen over a relatively short period of time
  - c. the changes are implemented by a large number of individuals from all over the world
  - d. the technology changes are so disruptive that change happens continuously
  - e. it is not an example of continuous technology

#### ANS: B

- 3. What was the common mistake of Polaroid, Swiss Watch, and the United States steel industry?
  - a. Giving technology away to competitors
  - b. Failing to improve their technology
  - c. Lost of government backing
  - d. Intervention of the WTO
  - e. Failing to form international alliances

#### ANS: B

- 4. The domains that firms need to ensure are consistent with their strategy include all of the following except:
  - a. Structure
  - b. Employee hiring and relations
  - c. Decision making
  - d. Incentives
  - e. Industry structure

### ANS: E

- 5. The impact of a strategy comes from the firm setting a clear direction and taking actions that are consistent with that strategy. The common areas that the firm needs to focus on include:
  - a. Incentives
  - b. Structure and decision making
  - c. Communication and employee relations

- d. Culture
- e. All of the above

### ANS: E

- 6. Capabilities are:
  - a. Skills the firm develops
  - b. The strategic direction the firm will seek to pursue.
  - c. The building blocks for the value chain analysis.
  - d. The building blocks of the five forces analysis.
  - e. Central to the analysis of complementors.

ANS: A

- 7. Capabilities are typically classified as either \_\_\_\_ or \_\_\_\_.
  - a. technical implementation
  - b. market formulation
  - c. implementation critical
  - d. technical market
  - e. implementation formulation

#### ANS: D

- 8. Technology's impact on the competitive environment is disruptive if:
  - a. The change and impact is dramatic in society from the technology.
  - b. There is a constant flow of small changes in the technology.
  - c. The technology has not substantively been present before.
  - d. The technology places existing industries out of business.
  - e. There is no impact from the technology

#### ANS: A

- 9. Each of the following are stages in the technology life cycle according to the S-curve except:
  - a. embryonic
  - b. growth
  - c. maturity
  - d. aging
  - e. death

#### ANS: E

- 10. When a firm uses technology in a \_\_\_\_\_ manner it employs a technology in a manner not being used by competitors.
  - a. Reactive
  - b. Preemptive
  - c. Offensive
  - d. Protective
  - e. Defensive

ANS: C

- 11. Firms that use technology in a similar manner as other firms in its industry are using it in a \_\_\_\_\_ manner.
  - a. Offensive
  - b. Defensive
  - c. Substitute
  - d. Competitive
  - e. Innovative

# ANS: B

12. Sotheby's used technology in a/an \_\_\_\_\_ manner by signing an agreement with EBay to gain a competitive advantage over Christie's.

- a. Offensive
- b. Aggressive
- c. Defensive
- d. Reactionary
- e. Competitive

# ANS: A

13. The strategic process DOES NOT include which of the following steps:

- a. Evaluation/Control
- b. Planning
- c. Implementation
- d. Approval
- e. These are all steps in the strategic process

# ANS: D

14. \_\_\_\_\_ is the gathering of information that leads to the generation of feasible alternatives for the firm.

- a. Planning
- b. Implementation
- c. Evaluation
- d. Control
- e. Analysis

# ANS: A

- 15. The \_\_\_\_\_\_ should identify in relatively few words what is unique about the firm and the scope of activities it wants to pursue.
  - a. Goal statement
  - b. Mission
  - c. Prospectus
  - d. Strategic plan
  - e. Industrial analysis

# ANS: B

- 16. Which of the following is not one of the levels of strategy?
  - a. Corporate
  - b. Functional
  - c. Industrial
  - d. Business
  - e. All of the above are levels of strategy.

# ANS: C

- 17. Corporate strategy establishes:
  - a. How domains such as marketing will operate to achieve strategic goals.
  - b. How individual businesses will operate.
  - c. What industries and businesses the firm will compete.
  - d. How individuals will progress through the corporation.
  - e. The defensive use of technology in the firm.

# ANS: C

- 18. Business level strategy establishes:
  - a. How domains such as marketing will operate to achieve strategic goals.
  - b. How individual businesses will operate.
  - c. What industries and businesses the firm will compete.
  - d. How individuals will progress through the corporation.
  - e. The defensive use of technology in the firm.

### ANS: B

- 19. Which of the following is the overall set of direction and set of actions that are to be pursued different disciplines within the firm?
  - a. Business strategy
  - b. Functional strategy
  - c. Strategic plan
  - d. Corporate strategy
  - e. Defensive strategy

### ANS.: B

20. Who are the firms or individuals that provide input into the ultimate output of the industry?

- a. Distributors
- b. Suppliers
- c. Retailers
- d. Corporate Headquarters
- e. Buyers

### ANS: B

21. Which is not one of the five forces in Michael Porter's analysis

- a. Buyers
- b. Innovators
- c. Rivalry
- d. Suppliers
- e. Substitutes

# ANS: B

- 22. Buyers are strong if all of the following are present EXCEPT:
- a. Buyers buy a large percentage of the industry's output.
- b. Low switching cost.
- c. Large number of sellers in the industry.
- d. The industry is selling a commodity product to the buyers.
- e. There are high capital requirements.

# ANS: E

- 23. Suppliers are powerful if:
  - a. There are low switching costs.
  - b. Customers can only vertically integrate forwards.
  - c. The product supplied is unique.
  - d. There is low demand for the product.
  - e. There are high capital costs.

# ANS: C

- 24. The threat of new entrants is high when all of the following are present except:
  - a. There is strong brand loyalty in the industry.
  - b. There are large economies of scale.
  - c. Distribution channels are hard to access.
  - d. Incumbent firms are not aggressive in their response.
  - e. Capital requirements are high.

### ANS: D

- 25. Substitutes form:
  - a. Price floor.
  - b. Price ceiling.
  - c. Industry competitors.
  - d. A group of products that do exactly the same function.
  - e. Troubling issues for most industries

# ANS: B

- 26. Rivalry increases when:
  - a. The number of competitors increases
  - b. Demand for product is slowing
  - c. Switching costs are high
  - d. Exit barriers are high
  - e. Strategic payoff is high.

ANS: C

- 27. The higher the \_\_\_\_\_\_ the more likely firms are to cut prices and in turn their profits.
  - a. New entrants
  - b. Substitutes
  - c. Rivalry
  - d. Suppliers
  - e. Buyers

# ANS: C

28. Organized labor would be considered in Porter's five forces model as a:

- a. Supplier
- b. Substitute
- c. Potentially lowering rivalry
- d. Reducing profitability
- e. Buyer

# ANS: A

- 29. What is a substitute product?
  - a. A product that is exactly the same as another
  - b. A product that performs a similar function but is not exactly the same as another
  - c. A completely different product
  - d. A product that goes well with another product
  - e. Another product which customers like.

# ANS: B

- 30. Strategic groups are:
  - a. Firms from substitute industries.
  - b. Firms from the same industry and compete in similar manners.
  - c. Firms from the same industry and compete in different manners.
  - d. Firms in the same industry that have the same size.
  - e. Firms from different industries that are in the same region.

# ANS: B

- 31. In a value chain the primary activities that take place include all except:
  - a. logistics of inputs
  - b. shipping of the product
  - c. human resource management
  - d. marketing the product
  - e. service

### ANS: C

- 32. In the value chain the support activities that take place include all of the following except:
  - a. Service
  - b. Human resources management
  - c. Infrastructure

- d. Technology development
- e. Procurement

### ANS: A

- 33. Evaluation and control is employed to \_\_\_\_:
  - a. Judge what industries the firm should be in.
  - b. Ensure the firm is reaching the goals and objectives established.
  - c. Evaluating which firms should be in the strategic group.
  - d. Rewarding the top performers in the firm.
  - e. Determining the CEO's salary for the year.

#### ANS: B

- 34. The goals and objectives the firm establishes should be:
  - a. Based on balance sheet and income statement.
  - b. Be financially sophisticated so that stock analysis can understand them.
  - c. Be developed by the CEO and enforced by the senior management of the firm.
  - d. Both quantitative and qualitative.
  - e. Be one no longer than one year in advance.

#### ANS: D

- 35. The four key perspectives of the balanced score card as defined by Kaplan and Norton include all of the following except:
  - a. financial
  - b. stakeholder
  - c. customer
  - d. internal business process
  - e. learning

#### ANS: B

### TRUE/FALSE

1. Porters Five Forces Analysis is a firm-level analysis model.

ANS: F

2. The action that eventually led to Polaroid's bankruptcy was their major strategic shift into the digital camera market.

ANS: F

3. The Strategy Process entails: Planning, Forming, Controlling.

ANS: F

4. Substitutes form the price floor for a product?

ANS: F

5. Strategy is not a single act that occurs in a firm. Instead it is a coordinated set of actions that fulfill the firm's objectives, purposes, and goals.

ANS: T

6. A firm uses technology in an offensive manner when it employs a technology in a manner the same as competitors in order to gain a competitive advantage.

ANS: F

7. The planning effort by the firm requires that the firm be clear what the firm's external capabilities are.

ANS: F

8. Economies of scale lowers ability to enter and power of new entrants.

ANS: F

9. In implementation process of the strategy, if the right people or supports are not in place at any one place in the flow, the entire process can be stopped.

ANS: T

10. Firms must constantly seek to actively manage and improve their technological potential.

ANS: T

11. Buyers gain power when the costs of switching to competing brands or substitutes are high.

ANS: F

12. Strategic Planning is a single act that occurs over a given time period which lays out the direction of the firm.

ANS: T

13. Managers must be reactive and make technology a part of the overall strategic efforts of the firm if they want to be successful.

ANS: F

14. Increases in demand for a product increases rivalry in an industry.

ANS: F

15. The root of Porter's Five forces is Industrial Organization economics?

ANS: T

### SHORT ANSWER

1. Discuss the two methods in which technology can be employed. ANS:

Offensive manner

- A firm employs technology in a manner not being used by competitors
- Creates a competitive advantage (lower costs, efficiency and effectiveness)

Defensive manner

- Obtain technology already being used by another firm
- Will not create a competitive advantage
- Goal is to not be at a disadvantage
- Johnson & Johnson example
- 2. Discuss the characteristics that increase rivalry in an industry. ANS:
  - number of competitors as they increase, rivalry increases
  - demand for product is slowing increases competition
  - when competitors need to increase volume produced to obtain economies of scale, competition increases
  - when customers cost to switch among producers is low, it increases competition
  - increases in payoff from successful strategic move increases competition
  - exit barriers raise competition
- 3. Define strategy and strategic planning and differentiate the two concepts. ANS:
  - Strategy is a coordinated set of actions that fulfill the firm's objectives, purposes, and goals.
  - Strategic planning is a single act that lays out the direction of the firm.
  - Strategic planning is not the same as strategy.
- 4. What is a value chain analysis? Why is it important to MTI? ANS:
  - This analysis breaks the firm's activities into primary activities and support activities.
  - Primary activities include inbound logistics, operations, outbound activities, marketing and sales, and service.
  - Support activities include firm infrastructure, human resource management, technology development, and procurement.
- 5. Differentiate the different levels of strategy and their importance to MTI. ANS:
  - Corporate what businesses the firm will compete
  - Business how those individual businesses will compete
    - The simplest form to analyze business strategies are low cost and differentiation
  - Functional how individual functional domains such as marketing, engineering, finance, and accounting help to fulfill the business strategy