Systems, Roles, and Development Methodologies, 8e (Kendall/Kendall) Chapter 2 Understanding and Modeling Organizational Systems

| ^ 1 | 3 / | | α 1 · |
|------------|-------|--------|--------------|
| 2.1 | N/111 | ltınla | Choice |
| 7 | IVIII | | V HOIGE |
| | 1114 | | |
| | | | |

Answer: D

Diff: 2 Page Ref: 33

| 1 | |
|---|--|
| A) boundary B) environme C) feedback D) interface Answer: C | hese is most closely associated with system control? ent Page Ref: 25 |
| 2) The element A) entities B) events C) factors D) relationship Answer: A Diff: 1 | ips Page Ref: 30 |
| A) rectangle vB) triangle C) arrow D) shaded cor Answer: B | he following symbols is <u>not</u> used on the context level data flow diagram? with rounded corners rner square Page Ref: 29 |
| A) the bounda B) detailed pr C) the system D) computer p Answer: A | aries of a system. cocesses that transform the incoming data to information. entities and how they are related. programs and their files. Page Ref: 29 |
| A) a person.B) another de | mputer system. |

| A) triangle B) square C) crow's foot D) rectangle Answer: C | line Page Ref: 31 |
|---|--|
| , | ization with many employees and many cubicles, with each employee having a extension is said to be a relationship. Page Ref: 31 |
| A) none of the B) one of the C) an attribute D) many of the Answer: D | other entity. ve entity. |
| A) a fundamenB) an associatC) an attributD) an externaAnswer: C | tive entity. ive entity. |
| 10) An entity of A) a fundame B) an associate C) an attribute D) an linking Answer: B Diff: 1 | tive entity. ive entity. |

| relationships. A) a fundamen B) an associati C) an attributiv D) a bipolar en Answer: B | ve entity. |
|---|--|
| outcomes? A) operations B) middle C) strategic D) None are in Answer: A | el of management makes decisions using predetermined rules that have predictable terested in detailed information. Page Ref: 44 |
| A) operationsB) middleC) strategicD) None of theAnswer: C | el of management is most dependent on external information? ese are dependent on external information. Page Ref: 45 |
| A) culture B) human relat C) leadership s D) technology Answer: A | • |
| A) of little imp B) an environn C) an enterpris D) an associati Answer: B | nent. e resource system. |

| 16) The free fl | ow of information within a system is called: |
|------------------|---|
| A) open source | · · · · · · · · · · · · · · · · · · · |
| B) a virtual org | |
| C) openness. | |
| D) enterprise v | vide resource availability. |
| Answer: C | |
| Diff: 2 | Page Ref: 26 |
| 17) A(n) | uses computer networks and communications technology to bring people |
| together to wo | rk on projects |
| A) virtual ente | rprise |
| B) open system | n |
| C) enterprise s | ystem |
| D) official sub | culture |
| Answer: A | |
| Diff: 3 | Page Ref: 26 |
| | ted organizational information system is called a(n): |
| A) virtual orga | nization. |
| B) open system | n. |
| C) interrelated | external entity. |
| D) an enterpris | se resource planning system. |
| Answer: D | |
| Diff: 1 | Page Ref: 32 |
| 19) An enterpr | ise resource planning system: |
| A) is purchase | d rather than developed. |
| B) links team i | members at remote distances. |
| | t management software to develop program coding schedules. |
| D) involves the | e use of isolated systems that do not interact. |
| Answer: A | |
| Diff: 2 | Page Ref: 28 |
| | ol used to represent a process on a context level data flow diagram is: |
| A) a diamond | inside a rectangle. |
| B) a circle. | |
| | de a rectangle. |
| | with rounded corners. |
| Answer: D | |

Diff: 3

Page Ref: 29

- 21) Processes on a data flow diagram:
- A) transform incoming data into outgoing information.
- B) represent the system boundaries.
- C) represent the work that a specific user performs.
- D) change the nature of the relationships on a entity-relationship diagram.

Answer: A

Diff: 2 Page Ref: 19

- 22) Another name for an associative entity is:
- A) an attributive entity.
- B) an external entity.
- C) a co-variant entity.
- D) a gerund.

Answer: D

Diff: 1 Page Ref: 32

- 23) A zero on a relationship line indicates:
- A) that the relationship line is undefined.
- B) the absence of any well-defined entities.
- C) that none is possible for the next relationship.
- D) that the relationship should be used to create an associative entity.

Answer: C

Diff: 2 Page Ref: 31

- 24) Attributes that are underlined on an entity-relationship diagram:
- A) are the names of external entities.
- B) can be searched for.
- C) represent virtual organizational components.
- D) are used to create attributive entities.

Answer: B

Diff: 2 Page Ref: 34

- 25) The management group that has a high need for historical data along with information that allows prediction of future events is:
- A) operations management.
- B) middle management.
- C) strategic management.
- D) virtual management.

Answer: B

Diff: 2 Page Ref: 45

- 2.2 True/False
- 1) Systems and subsystems are interrelated and interdependent.

Answer: TRUE

Diff: 1 Page Ref: 24

2) Feedback is a form of system control.

Answer: TRUE

Diff: 1 Page Ref: 25

3) Anything which affects the functioning of an organization is considered to be an environment.

Answer: FALSE

Diff: 2 Page Ref: 25

4) An open system allows free passage of resources (people, information, materials) through its boundaries

Answer: TRUE

Diff: 1 Page Ref: 46

5) A context level data flow diagram includes many detailed processes representing the computer programs within the system.

Answer: FALSE

Diff: 2 Page Ref: 39

6) In an entity relationship diagram, rectangles represent entities, and ovals represent relationships.

Answer: FALSE

Diff: 2 Page Ref: 30

7) The elements that make up an organizational system are referred to as entities.

Answer: TRUE

Diff: 1 Page Ref: 30

8) A crow's foot on each side of a relationship indicates a one-to-one relationship.

Answer: FALSE

Diff: 1 Page Ref: 31

9) An associative entity joins two entities.

Answer: TRUE

Diff: 2 Page Ref: 32

10) Middle managers make decisions using predetermined rules that have predictable outcomes when implemented correctly.

Answer: FALSE

Diff: 1 Page Ref: 44

11) Strategic managers work in a highly uncertain decision making environment.

Answer: TRUE

Diff: 1 Page Ref: 45

12) Operations managers most often make one-time decisions but the decisions made by strategic managers tend to be repetitive.

Answer: FALSE

Diff: 2 Page Ref: 44

13) Middle managers are highly dependent on external information.

Answer: FALSE

Diff: 2 Page Ref: 44

14) Strategic planners tend to use information that is more current than information used by middle managers.

Answer: FALSE

Diff: 2 Page Ref: 45

15) Often, considering organizational subcultures is more useful than is considering organizational culture.

Answer: TRUE

Diff: 1 Page Ref: 45

16) Understanding organizational subcultures may help analysts overcome resistance to change.

Answer: TRUE

Diff: 2 Page Ref: 46

17) Virtual enterprises use computer networks and communications technology to bring people together on a project.

Answer: TRUE

Diff: 1 Page Ref: 26

18) One drawback of working on a virtual team is that there is no easy way for members to share project results.

Answer: FALSE

Diff: 1 Page Ref: 26

19) Enterprise resource planning systems are software that help the flow of information between the functional areas in an organization.

Answer: TRUE

Diff: 1 Page Ref: 28

20) Implementing an enterprise resource system is easy because it is easy to analyze a system currently in use.

Answer: FALSE

Diff: 1 Page Ref: 28

21) Another name for an attributive entity is a gerund.

Answer: FALSE

Diff: 2 Page Ref: 32

| 22) A many-to-m Answer: FALSE Diff: 2 Pa | |
|--|--|
| | e end of a relationship line indicates that there may be none of the entity that the to. |
| 24) A primary us Answer: TRUE Diff: 1 Pa | se case describes the standard flow of events in the system. age Ref: 38 |
| 25) Use cases all Answer: TRUE Diff: 1 Pa | ow people to tell stories. age Ref: 43 |
| 2.3 Fill-in-the-H | Blank |
| 1) All systems ar Answer: subsyst Diff: 1 Pa | |
| 2) cha Answer: Process Diff: 1 Pa | |
| | |
| Answer: feedbac | to compare performance with goals. ck age Ref: 25 |
| 5) A(n) organization. Answer: open | _ system is a system with a relatively free flow of information within the |
| | age Ref: 46 |
| Answer: context | efines the boundaries of the system. Elevel data flow diagram age Ref: 34 |

| 7) The elements that make up an organizational system can be referred to as |
|---|
| Answer: Entities |
| Diff: 2 Page Ref: 30 |
| 8) A(n) is used to help model the database or files. |
| Answer: entity-relationship diagram |
| Diff: 1 Page Ref: 34 |
| Dill. 1 age Ref. 54 |
| 9) A(n) on one end of a relationship indicates that none of the entity are a possibility. |
| Answer: circle or zero |
| Diff: 1 Page Ref: 31 |
| |
| 10) A(n) joins two fundamental entities. |
| Answer: associative entity |
| Diff: 1 Page Ref: 32 |
| |
| 11) The level of management concerned with making decisions using predetermined rules which |
| have predictable outcomes is the manager. |
| Answer: operations |
| Diff: 1 Page Ref: 44 |
| 12) coexist with "official" organizational cultures. |
| Answer: Subcultures |
| Diff: 1 Page Ref: 45 |
| 13) A(n) uses computer networks and communications technology to bring people |
| |
| together to work on projects. |
| Answer: virtual enterprise |
| Diff: 2 Page Ref: 26 |
| 14) A(n) system describes an integrated organizational information system. |
| Answer: enterprise resource planning |
| Diff: 1 Page Ref: 28 |
| |
| 15) A use case diagram contains two symbols, the and a(n) |
| Answer: use case; actor |
| Diff: 3 Page Ref: 36 |
| 16) The relationship contains a behavior that is common to more than one use case. |
| Answer: includes |
| Diff: 3 Page Ref: 37 |
| Diff. 5 Tago Not. 57 |
| 17) The relationships handles exceptions to the basic use case. |
| Answer: extends |
| Diff: 3 Page Ref: 37 |

| 18) are the state of the system before the use case may be performed. |
|---|
| Answer: Preconditions |
| Diff: 3 Page Ref: 41 |
| 19) show the state of the system after the use case has finished. |
| Answer: Postconditions |
| Diff: 3 Page Ref: 41 |
| 20) forms the second, or intermediate, tier of the three-tiered management system. |
| Answer: Middle Management |
| Diff: 2 Page Ref: 44 |
| 21) A(n) can only exist if it is connected to at least two other entities. |
| Answer: associative entity |
| Diff: 3 Page Ref: 32 |
| 22) A describes <i>what</i> a system does without describing <i>how</i> the system does it |
| Answer: use case model |
| Diff: 2 Page Ref: 36 |
| 23) The area shows why this use case is important and necessary for the business area |
| to be successful |
| Answer: Requirements Met |
| Diff: 3 Page Ref: 43 |
| 24) is a rough assessment of whether there may be problems or difficulties developing |
| the use case. |
| Answer: Risk |
| Diff: 3 Page Ref: 43 |
| 25) are highly dependent on information from external sources that supply news of |
| market trends and the strategies of competing corporations. |
| Answer: Strategic managers |
| Diff: 2 Page Ref: 43 |
| 2.4 Short Answer |
| 1) Describe the elements of an E-R diagram depicting the relationship between a person and a |
| tee-shirt. This description should show the following relationship: Each person can have many |
| tee-shirts, but each shirt can only be owned by a single person. |
| Answer: Students should describe two entities, connected with a one to many relationship. |
| Diff: 2 Page Ref: 31 |

2) Give an example of the type of decision that would be made by an Operational Manager? Answer: Students should provide an example that is consistent with the idea that Operational Managers use predetermined rules that usually have predictable outcomes, e.g dismissing an employee for reporting to work late three times in a week.

Diff: 2 Page Ref: 44

3) What are the three parts of a use case scenario that are always described?

Answer: A use case always describes three things: an actor that initiates an event; the event that triggers a use case; and the use case that performs the actions triggered by the event.

Diff: 1 Page Ref: 36

4) List the three broad, horizontal levels of management in organizations.

Answer: 1. Operational Management

- 2. Middle Management
- 3. Strategic Management

Diff: 2 Page Ref: 44

5) Define openness in an organizational environment.

Answer: Openness in an organizational environment allows for free passage of resources (people, information, materials) through its boundaries

Diff: 2 Page Ref: 46