

Chapter 2

True-False

1. Subsystems are composed of systems. F (p. 28)
2. Systems and subsystems are interrelated and interdependent. T (p. 28)
3. The interface between a system and its environment is known as the boundary. T (p. 28)
4. Feedback is a form of system control. T (p. 28)
5. Anything which affects the functioning of an organization is considered to be an environment. F (p. 29)
6. Open systems are characterized by a free flow of ideas among organizational members. T (p. 29)
7. A context level data flow diagram includes many detailed processes representing the computer programs within the system. F (p. 32)
8. In an entity-relationship diagram, rectangles represent entities, and ovals represent relationships. F (p. 34)
9. The elements that make up an organizational system are referred to as entities. T (p. 34)
10. A crow's foot on each side of a relationship indicates a one-to-one relationship. F (p. 34)
11. An associative entity joins two entities. T (p. 36)
12. Middle managers make decisions using predetermined rules that have predictable outcomes when implemented correctly. F (p. 47)
13. Strategic managers work in a highly uncertain decision-making environment. T (p. 47)
14. Operations managers most often make one-time decisions but the decisions made by strategic managers tend to be repetitive. F (p. 48)
15. Middle managers are highly dependent on external information. F (p. 48)
16. Strategic planners tend to use information that is more current than information used by middle managers. F (p. 48)
17. Often, considering organizational subcultures is more useful than is considering organizational culture. T (p. 49)
18. Understanding organizational subcultures may help analysts overcome resistance to change. T (p. 49)
19. Virtual enterprises use computer networks and communications technology to bring people together on a project. T (p. 29)
20. One drawback of working on a virtual team is that there is no easy way for members to share project results. F (p. 29)
21. Enterprise resource planning is a method of developing specifications for computer programs and then writing custom enterprise-wide software. F (p. 32)
22. Implementing an enterprise resource system is easy because it is easy to analyze a system currently in use. F (p. 32)
23. Another name for an associative entity is a gerund. T (p. 36)
24. A many-to-many relationship may be implemented by using an attributive entity on one

- end. F (p. 36)
25. A zero on one end of a relationship line indicates that there may be none of the entity that the line is connected to. T (p. 36)
26. Actors are the people inside the system, acting to do the work of the system. F (p. 39)
27. An includes relationship describes a use case that contains behavior common to more than one use case. T (p. 40)
28. A primary use case describes the standard flow of events in the system. T (p. 42)
29. Use cases allow people to tell stories. T (p. 46)

Multiple Choice

30. Which of these is most closely associated with system control?
- A. boundary
 - B. environment
 - C. **feedback (p. 28)**
 - D. interface
31. The elements that make up an organizational system are called ____.
- A. **entities (p. 34)**
 - B. events
 - C. factors
 - D. relationships
32. Which of the following symbols is not used on the context level data flow diagram?
- A. rectangle with rounded corners
 - B. **triangle (p. 32)**
 - C. arrow
 - D. shaded corner square
33. The context level data flow diagram depicts:
- A. **the boundaries of a system. (p. 34)**
 - B. detailed processes that transform the incoming data to information.
 - C. the system entities and how they are related.
 - D. computer programs and their files.
34. An external entity may be:
- A. a person.
 - B. another department.
 - C. another computer system.
 - D. **all of the above. (p. 33)**

35. Which of these is used to depict a relationship in an entity-relationship diagram?
- A. triangle
 - B. square
 - C. **crow's foot line (p. 34).**
 - D. rectangle
36. In an organization with many employees and many cubicles, with each employee having a unique phone extension is said to be a _____ relationship.
- A. **1:1 (p. 34)**
 - B. 1:M
 - C. M:1
 - D. M:N
37. A crow's foot notation indicates:
- A. none of the other entity.
 - B. one of the other entity.
 - C. an attributive entity.
 - D. **many of the other entity. (p. 34)**
38. An entity that describes attributes, such as repeating groups is called:
- A. a fundamental entity.
 - B. an associative entity.
 - C. **an attributive entity. (p. 36)**
 - D. an external entity.
39. An entity that joins two other entities is called:
- A. a fundamental entity.
 - B. **an associative entity. (p. 36)**
 - C. an attributive entity.
 - D. an linking entity.
40. A many-to-many relationship is replaced with a(n) _____ to form two one-to-many relationships.
- A. a fundamental entity.
 - B. **an associative entity. (p. 37)**
 - C. an attributive entity.
 - D. a bipolar entity.
41. Which level of management makes decisions using predetermined rules that have predictable outcomes?
- A. **operations (p. 47)**
 - B. middle
 - C. strategic
 - D. None are interested in detailed information.

42. Which level of management is most dependent on external information?
- A. operations
 - B. middle
 - C. **strategic (p. 48)**
 - D. None of these are dependent on external information.
43. Which view of organizations concentrates on myths, metaphors, humor, and ceremonies?
- A. **culture (p. 49)**
 - B. human relationships
 - C. leadership style
 - D. technology
44. Anything external to an organizations boundaries is considered to be:
- A. of little importance.
 - B. **an environment. (p. 29)**
 - C. an enterprise resource system.
 - D. an associative entity.
45. The free flow of information within a system is called:
- A. open source information.
 - B. a virtual organization.
 - C. **openness. (p. 29)**
 - D. enterprise wide resource availability.
46. A(n) _____ uses computer networks and communications technology to bring people together to work on projects
- A. **virtual enterprise (p. 29)**
 - B. open system
 - C. enterprise system
 - D. official subculture
47. An integrated organizational information system is called a(n):
- A. virtual organization.
 - B. open system.
 - C. interrelated external entity.
 - D. **an enterprise resource planning system. (p. 32)**
48. An enterprise resource planning system:
- A. **is purchased rather than developed. (p. 32)**
 - B. links team members at remote distances.
 - C. uses project management software to develop program coding schedules.
 - D. involves the use of isolated systems that do not interact.

49. The symbol used to represent a process on a context level data flow diagram is:
- A. a diamond inside a rectangle.
 - B. a circle.
 - C. an oval inside a rectangle.
 - E. **A rectangle with rounded corners. (p. 33)**
50. Processes on a data flow diagram:
- A. **transform incoming data into outgoing information. (p. 32)**
 - 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.
51. Another name for an associative entity is:
- A. an attributive entity.
 - B. an external entity.
 - C. a co-variant entity.
 - D. **a gerund. (p. 36)**
52. 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. (p. 36)**
 - D. that the relationship should be used to create an associative entity.
53. Attributes that are underlined on an entity-relationship diagram:
- A. are the names of external entities.
 - B. **can be searched for. (p. 38)**
 - C. represent virtual organizational components.
 - D. are used to create attributive entities.
54. 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. (p. 48)**
 - C. strategic management.
 - D. virtual management.
55. Which of the following is a use case symbol?
- A. **Actor. (p. 39)**
 - B. User.
 - C. External entity.
 - D. Associative entity.

56. Which of the following is not a type of use case relationship?

- A. Extend
- B. Generalize
- C. Communicates
- D. **Develops (p. 40)**

57. Which of the following is not included in a use case scenario?

- A. Preconditions
- B. Triggering event
- C. **Includes (p. 44)**
- D. Assumptions

Completion

58.	All systems are composed of interrelated (<u>subsystems</u>). (p. 28)
59.	(<u>Processes</u>) change or transform inputs into outputs. (p. 28)
60.	All systems and subsystems are interrelated and (<u>interdependent</u>), which indicates that when any element of a system is changed or eliminated, other system elements are also affected. (p. 28)
61.	The interface between a system and its environment is known as the (<u>boundary</u>). (p. 28)
62.	System outputs are used as (<u>feedback</u>) to compare performance with goals. (p. 28)
63.	An (<u>open</u>) system is a system with a relatively free flow of information within the organization. (p. 29)
64.	A (<u>context level data flow diagram</u>) defines the boundaries of the system. (p. 34)
65.	(<u>Entities</u>) supply the system with data or receive information from the system. (p. 32)
66.	An (<u>entity-relationship diagram</u>) is used to help model the database or files. (p. 39)
67.	A (<u>circle</u>) on one end of a relationship indicates that none of the entity are a possibility. (p. 36)
68.	An (<u>associative entity</u>) joins two fundamental entities. (p. 36)
69.	The level of management concerned with making decisions using predetermined rules which have predictable outcomes is the (<u>operations</u>) manager. (p. 47)
70.	(<u>Subcultures</u>) coexist with "official" organizational cultures. (p. 49)
71.	A (<u>virtual enterprise</u>) uses computer networks and communications technology to bring people together to work on projects. (p. 29)
72.	An (<u>enterprise resource planning</u>) system describes an integrated organizational information system. (p. 32)
73.	A use case diagram contains two symbols, the (<u>use case</u>) and a(n) (<u>actor</u>). (p. 39)
74.	The (<u>includes</u>) relationship contains a behavior that is common to more than one use case. (p. 41)
75.	The (<u>extends</u>) relationships handles exceptions to the basic use case. (p. 41)

76.	(<u>Preconditions</u>) are the state of the system before the use case may be performed. (p. 45)
77.	(<u>Postconditions</u>) show the state of the system after the use case has finished. (p. 45)