Business Intelligence and Analytics Systems for Decision Support 10th Edition Sharda Test Bank

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Business Intelligence and Analytics: Systems for Decision Support, *10e* (Sharda) Chapter 2 Foundations and Technologies for Decision Making

1) When HP approaches problem-solving, the first step in solving business problems is building a model that enables decision makers to develop a good understanding of the problem.

Answer: FALSE Diff: 2 Page Ref: 38

2) In a decision making environment, continuous change always validates the assumptions of the decision makers.

Answer: FALSE Diff: 1 Page Ref: 40

3) The most important feature of management support systems is the computational efficiency involved in making a decision.

Answer: FALSE Diff: 2 Page Ref: 41

4) Web-based decision support systems can provide support to both individuals and groups that act in a decision-making capacity.

Answer: TRUE

Diff: 1 Page Ref: 42

5) Single decision makers rarely face decisions with multiple objectives in organizations and so are not the focus of data analytics tools.

Answer: FALSE Diff: 3 Page Ref: 42

6) The design phase of decision making is where the decision maker examines reality and identifies and defines the problem.

Answer: FALSE Diff: 2 Page Ref: 43

7) Only after the failed implementation of a decision can the decision maker return a prior stage of decision making.

Answer: FALSE Diff: 3 Page Ref: 43

8) Web-based collaboration tools (e.g., GSS) can assist in multiple stages of decision making, not just the intelligence phase.

Answer: TRUE

9) Uncovering the existence of a problem can be achieved through monitoring and analyzing of the organization's productivity level. The derived measurements of productivity are based on real data.

Answer: TRUE

Diff: 2 Page Ref: 45

10) Qualitative elements of a problem cannot be incorporated into formal decision models, so one can only seek to minimize their impact.

Answer: FALSE Diff: 2 Page Ref: 46

11) Since the business environment involves considerable uncertainty, a manager cannot use modeling to estimate the risks resulting from specific actions.

Answer: FALSE Diff: 3 Page Ref: 47

12) A normative model examines all the possible alternatives in order to prove that the one selected is the best.

Answer: TRUE

Diff: 2 Page Ref: 49

13) Since a descriptive model checks the performance of the system for only a subset of all possible alternatives, there is no guarantee that a selected alternative will be optimal.

Answer: TRUE

Diff: 2 Page Ref: 50-51

14) Generating alternatives manually is often necessary in the model-building process. The best option for the decision makers is to generate as many of these alternatives as is conceivable.

Answer: FALSE Diff: 2 Page Ref: 52

15) Generally speaking, people intuitively estimate risk quite accurately.

Answer: FALSE

Diff: 1 Page Ref: 55-56

16) A data warehouse can support the intelligence phase of decision making by continuously monitoring both internal and external information, looking for early signs of problems and opportunities through a Web-based enterprise information portal or dashboard.

Answer: TRUE

Diff: 1 Page Ref: 57

17) Business intelligence systems typically support solving a certain problem or evaluate an opportunity, while decision support systems monitor situations and identify problems and/or opportunities, using analytic methods.

Answer: FALSE Diff: 2 Page Ref: 59 18) Artificial intelligence-based DSS fall into this category of document-driven DSS.

Answer: FALSE Diff: 2 Page Ref: 62

19) The DSS component that includes the financial, statistical, management science, or other quantitative models is called the model management subsystem.

Answer: TRUE

Diff: 2 Page Ref: 66

20) Knowledge-based management subsystems provide intelligence to augment the decision maker's own intelligence.

Answer: TRUE

Diff: 2 Page Ref: 69

- 21) The HP Case illustrates that after analytics are chosen to solve a problem, building a new decision model from scratch or purchasing one may not always be the best approach. Why is that?
- A) Decision models should never be purchased, only developed in house.
- B) A related tool requiring slight modification may already exist.
- C) CIOs are more likely to allocate funds to new development.
- D) Analytic models work better when they are built from scratch or purchased.

Answer: B

Diff: 3 Page Ref: 38

- 22) Groupthink in a decision-making environment occurs when
- A) group members all use the same analytic tools without having a choice.
- B) group members accept the same timeframe for problem solving without complaining.
- C) group members all accept a course of action without thinking for themselves.
- D) group members are all working together for the firm's success.

Answer: C

Diff: 3 Page Ref: 40

- 23) All of the following statements about decision style are true EXCEPT
- A) autocratic styles are authority-based.
- B) decision styles are consistent among top managers.
- C) heuristic styles can also be democratic.
- D) decision styles may vary among lower-level managers.

Answer: B

Diff: 3 Page Ref: 41-42

- 24) A search for alternatives occurs in which phase of the decision making/action model?
- A) the design phase
- B) the intelligence phase
- C) the choice phase
- D) the implementation phase

Answer: A

- 25) All of the following are benefits of using models for decision support EXCEPT
- A) it is easier to manipulate a model than a real system.
- B) you can find out probable outcomes of an action before actually taking it.
- C) using well-designed models always guarantees you success in implementation.
- D) the cost of a model is usually much lower than manipulating the system in implementation.

Answer: C

Diff: 2 Page Ref: 47

- 26) In the design phase of decision making, selecting a principle of choice or criteria means that
- A) if an objective model is used with hard data, all decision makers will make the same choice.
- B) risk acceptability is a subjective concept and plays little part in modeling.
- C) using well-designed models guarantees you success in real life.
- D) optimality is not the only criterion for acceptable solutions.

Answer: D

Diff: 2 Page Ref: 49

- 27) What form of decision theory assumes that decision makers are rational beings who always seek to strictly maximize economic goals?
- A) the theory of bounded rationality
- B) normative decision theory
- C) satisficing decision theory
- D) human optimal decision theory

Answer: B

Diff: 3 Page Ref: 49

- 28) When an Accounts Payable department improves their information system resulting in faster payments to vendors, without the Accounts Receivable Department doing the same, leading to a cash flow crunch, what can we say happened in decision-theoretic terms?
- A) optimization
- B) profit minimization
- C) suboptimization
- D) cash flow problems

Answer: C

Diff: 3 Page Ref: 49-50

- 29) All of the following statements about risk in decision making are correct EXCEPT
- A) all business decisions incorporate an element of risk.
- B) decision makers frequently measure risk and uncertainty incorrectly.
- C) methodologies are available for handling extreme uncertainty.
- D) most decision makers are pessimistic about decision outcomes.

Answer: D

- 30) The Web can play a significant role in making large amounts of information available to decision makers. Decision makers must be careful that this glut of information does not
- A) increase their enthusiasm for data available on the web.
- B) take on the same credibility of internally-generated data.
- C) take on the same role as human intuition.
- D) detract from the quality and speed of decision making.

Answer: D

Diff: 3 Page Ref: 57

- 31) All of the following statements about the decision implementation phases are true EXCEPT
- A) implementation is every bit as important as the decision itself.
- B) employees need only the decisions from the CEO, not the rationale.
- C) ERP, CRP, and BPM tools can all help track decision implementation.
- D) ES and KMS can help in training and support for decision implementation.

Answer: B

Diff: 3 Page Ref: 58-59

- 32) For DSS, why are semistructured or unstructured decisions the main focus of support?
- A) There are many more unstructured and semistructured decisions than structured in organizations.
- B) MIS staff prefer to work on solving unstructured and semistructured decisions.
- C) Unstructured and semistructured decisions are the easiest to solve.
- D) They include human judgment, which is incorporated into DSS.

Answer: D

Diff: 3 Page Ref: 59

- 33) What class of DSS incorporates simulation and optimization?
- A) model-driven DSS
- B) data-driven DSS
- C) communications-driven/Group DSS
- D) knowledge-driven DSS

Answer: A

Diff: 3 Page Ref: 62-63

- 34) When a DSS is built, used successfully and integrated into the company's business processes, it was most likely built for a(n)
- A) recurrent decision.
- B) one-off decision.
- C) unimportant decision.
- D) ambiguous decision.

Answer: A

- 35) The fact that many organizations share many similar problems means that in sourcing a DSS, it is often wiser to acquire a(n)
- A) ready-made DSS.
- B) custom-made DSS.
- C) offshored DSS.
- D) consultant-developed DSS.

Answer: A

Diff: 2 Page Ref: 63-64

- 36) The software that manages the DSS database and enables relevant data to be accessed by DSS application programs is called
- A) KWS.
- B) ERP.
- C) DBMS.
- D) CRM.

Answer: C

Diff: 2 Page Ref: 65

- 37) The model management subsystem provides the system's analytical capabilities and appropriate software management. Which of the following is NOT an element of the model management subsystem?
- A) model base
- B) MBMS
- C) DBMS
- D) model execution, integration, and command processor

Answer: C

Diff: 2 Page Ref: 66

- 38) While Microsoft Excel can be an efficient tool for developing a DSS, compared to using a programming language like C++, a shortcoming of Excel is
- A) it cannot be used effectively for small or medium sized problems.
- B) Excel is not widely understood compared to a language like C++.
- C) it is not widely available for purchase.
- D) errors can creep into formulas somewhat easily.

Answer: D

Diff: 2 Page Ref: 67

- 39) What type of user interface has been recognized as an effective DSS GUI because it is familiar, user friendly, and a gateway to almost all sources of necessary information and data?
- A) ASP.net
- B) Web browsers
- C) visual basic interfaces
- D) mainframe interfaces

Answer: B

40) The user communicates with and commands the DSS through the user interface subsystem.Researchers assert that some of the unique contributions of DSS are derived fromA) the Web browser.B) the user being considered part of the system.
C) some DSS user interfaces utilizing natural-language input (i.e., text in a human language). D) the intensive interaction between the computer and the decision maker. Answer: D
Diff: 3 Page Ref: 68
41) At two opposite ends of the spectrum are autocratic and decision styles. Answer: democratic
Diff: 1 Page Ref: 41
42) in decision making involves scanning the environment, either intermittently or continuously. Answer: Intelligence
Diff: 2 Page Ref: 44
43) The elevators case study shows that correct problem is important in decision-making.
Answer: identification Diff: 2 Page Ref: 45
44) is the conceptualization of a problem in an attempt to place it in a definable category, possibly leading to a standard solution approach. Answer: Problem classification Diff: 2 Page Ref: 46
45) In creating a normative model, a decision maker examines all the alternatives to prove that the one selected is indeed the best, and is what the person would normally want. This process is basically known as Answer: optimization Diff: 2 Page Ref: 49
46) A(n) is a typically mathematically based model that describes things as they are or as they are believed to be. Answer: descriptive model Diff: 1 Page Ref: 50
47) A(n) map can help a decision maker sketch out the important qualitative factors and their causal relationships in a messy decision-making situation. Answer: cognitive Diff: 2 Page Ref: 51

	best decision makers accurately estimate the associated with decision
Answer:	ves to aid their selection.
	Page Ref: 53
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49) The _	phase involves putting a recommended solution to work, not necessarily
-	nting a computer system.
	implementation
Diff: 2	Page Ref: 55
decision Answer:	definitions of a(n) identified it as a system intended to support managerial makers in semistructured and unstructured decision situations. decision support system (DSS) Page Ref: 59
on know. Answer:	applications have been classified in several different waysdriven DSS rely ledge coding, analysis, search, and retrieval for decision support. Document Page Ref: 62
formulation asAnswer:	developed around optimization or simulation models and incorporate model ion, maintenance, and management in distributed computing environments, are knowndriven DSS. model Page Ref: 62-63
subsyster Answer:	SS application can employ a data management subsystem, a model management m, a user interface subsystem, and a(n) knowledge-based management subsystem Page Ref: 64
other qua software Answer:	model management subsystem includes financial, statistical, management science, and antitative models that provide the system's analytical capabilities plus appropriate management. This software is often called a(n) model base management system (MBMS) Page Ref: 65-66
able to ca Answer:	e Station Casinos case, the decision support system brought about benefits from being apture, analyze and segment customers Page Ref: 66
customiz for less c Answer:	use DSS deal with semistructured or unstructured problems, it is often necessary to be models, using programming tools and languages. For small and medium-sized DSS or complex ones, software is usually used. spreadsheet Page Ref: 67

57) The user communicates with and commands the DSS through the _____ subsystem. Answer: user interface Diff: 2 Page Ref: 68 58) The knowledge-based management subsystem can be interconnected with the organization's knowledge repository (part of a knowledge management system [KMS]), which is sometimes called the Answer: organizational knowledge base Diff: 2 Page Ref: 69-70 59) The Watson Question Answering computing platform uses machine ______ to acquire vast amounts of new medical knowledge. Answer: learning Diff: 2 Page Ref: 70 60) Geographical Information Systems (GIS) can be readily integrated with other, more traditional _____ components and tools for improved decision making. Answer: decision support system (DSS) Diff: 2 Page Ref: 72

61) Olavson and Fry (2008) have worked on many spreadsheet models for assisting decision makers at HP and have identified several lessons from both their successes and their failures when it comes to constructing and applying spreadsheet-based tools. How do they define a tool? Answer: They define a tool as "a reusable, analytical solution designed to be handed off to nontechnical end users to assist them in solving a repeated business problem."

Diff: 3 Page Ref: 38

62) According to Simon (1977), managerial decision making is synonymous with the entire management process. Give a working definition of decision making.

Answer: Decision making is a process of choosing among two or more alternative courses of action for the purpose of attaining one or more goals.

Diff: 2 Page Ref: 41

63) Computer support can be provided at a broad level, enabling members of whole departments, divisions, or even entire organizations to collaborate online. Name some of the various systems that have evolved from computer support.

Answer: Computer support has evolved over the past few years into enterprise information systems (EIS) and includes group support systems (GSS), enterprise resource management (ERM)/enterprise resource planning (ERP), supply chain management (SCM), knowledge management systems (KMS), and customer relationship management (CRM) systems.

64) Name Simon's four phases of decision making and mention how they are impacted by the web.

Answer:

Intelligence

- Access to information to identify problems and opportunities from internal and external data sources
- Access to analytics methods to identify opportunities
- Collaboration through group support systems (GSS) and knowledge management systems (KMS)

• Design

- Access to data, models, and solution methods
- Use of online analytical processing (OLAP), data mining, and data warehouses
- Collaboration through GSS and KMS
- Similar solutions available from KMS

Choice

- Access to methods to evaluate the impacts of proposed solutions

Implementation

- Web-based collaboration tools (e.g., GSS) and KMS, which can assist in implementing decisions
- Tools, which monitor the performance of e-commerce and other sites, including intranets, extranets, and the Internet

Diff: 3 Page Ref: 44

65) A major characteristic of a DSS and many BI tools (notably those of business analytics) is the inclusion of at least one model. How does the text describe a model?

Answer: A model is a simplified representation or abstraction of reality. It is usually simplified because reality is too complex to describe exactly and because much of the complexity is actually irrelevant in solving a specific problem.

Diff: 2 Page Ref: 47

66) According to Simon (1977), most human decision making, whether organizational or individual, involves a willingness to settle for a satisfactory solution, "something less than the best." This is called satisficing. How does a decision maker go about satisficing?

Answer: When satisficing, the decision maker sets up an aspiration, a goal, or a desired level of performance and then searches the alternatives until one is found that achieves this level.

Diff: 2 Page Ref: 51-52

67) A scenario is a statement of assumptions about the operating environment of a particular system at a given time; that is, it is a narrative description of the decision-situation setting. What does a scenario describe, and what may it also provide?

Answer: A scenario describes the decision and uncontrollable variables and parameters for a specific modeling situation. It may also provide the procedures and constraints for the modeling.

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68) Relate four specific technologies that support all phases of the decision making process, and describe what they provide.

Answer: Databases, data marts, and especially data warehouses are important technologies in supporting all phases of decision making. They provide the data that drive decision making. Diff: 1 Page Ref: 56

- 69) A DSS is typically built to support the solution of a certain problem or to evaluate an opportunity. Describe three key characteristics and capabilities of DSS. Answer:
- 1. Support for decision makers, mainly in semistructured and unstructured situations, by bringing together human judgment and computerized information. Such problems cannot be solved (or cannot be solved conveniently) by other computerized systems or through use of standard quantitative methods or tools. Generally, these problems gain structure as the DSS is developed. Even some structured problems have been solved by DSS.
- 2. Support for all managerial levels, ranging from top executives to line managers.
- 3. Support for individuals as well as groups. Less-structured problems often require the involvement of individuals from different departments and organizational levels or even from different organizations. DSS support virtual teams through collaborative Web tools. DSS have been developed to support individual and group work, as well as to support individual decision making and groups of decision makers working somewhat independently.
- 4. Support for interdependent and/or sequential decisions. The decisions may be made once, several times, or repeatedly.
- 5. Support in all phases of the decision-making process: intelligence, design, choice, and implementation.
- 6. Support for a variety of decision-making processes and styles.
- 7. The decision maker should be reactive, able to confront changing conditions quickly, and able to adapt the DSS to meet these changes. DSS are flexible, so users can add, delete, combine, change, or rearrange basic elements. They are also flexible in that they can be readily modified to solve other, similar problems.

Diff: 3 Page Ref: 60

- 70) Name and give a brief description of each of the components of a DSS application. Answer:
- A data management subsystem, which includes a database that contains relevant data for the situation
- A model management subsystem, which is the component that includes financial, statistical, management science, or other quantitative models that provide the system's analytical capabilities and appropriate software management
- A user interface subsystem, through which the user communicates with and commands the DSS, and which a user is considered a part of
- A knowledge-based management subsystem, which provides intelligence to augment the decision maker's own.

Diff: 3 Page Ref: 65-70