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| 1. Database connectivity software is also known as database middleware because it interfaces between the application program and the database.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 681 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 2. A good API makes it easy to develop a program by providing all of the building blocks.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 683 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 3. Among the three levels of compliance of the ODBC API standards, Level-1 provides support for procedural SQL and cursors.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 683 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 4. Having a web-based database interface eliminates the design and implementation issues of a database system.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 685 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 5. Whether you purchase online or by standing in line, the system-level transaction details are essentially the same, and they require the same basic database structures and relationships.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 692 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 6. The effects of bad database design, implementation, and management are magnified in an environment in which the number of transactions is less than one hundred.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 692 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 7. The benefits of the web as a data access platform arise from its cross-platform functionality and the simplicity of its interface.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 693 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 8. When an end user uses a web browser to dynamically query a database, the client browser actually requests a web page from the web server.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 693 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 9. In the database query scenario, the web server generates the webpage contents before it sends the page to the client web browser.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 693 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 10. Extending the web server functionality implies that the web server and the web-to-database middleware will properly communicate with each other.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 693 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 11. The Common Gateway Interface (CGI) is a newer web server interface standard that is much more efficient and faster than a dynamic link library (DLL).   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 695 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 12. An application programming interface (API) uses script files that perform specific functions based on the client’s parameters that are passed to the web server.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 695 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 13. The browser’s interpretation and presentation capabilities are sufficient to develop web-based applications.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 697 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 14. The label “stateless system” indicates that, at any given time, there is an open communication line between the server and each client accessing it.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 697 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 15. The only time the client and server computers communicate is when the client requests a page and the server sends the requested page to the client.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 697 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 16. The use of HTML does not equip a web browser with computational abilities beyond formatting output text and accepting form field inputs.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 697 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 17. A plug-in is an external application that is automatically invoked by a web browser when needed.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 697 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 18. A client-side extension is a program that interacts directly with the web server to handle specific types of requests.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 697 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 19. A document type definition (DTD) can be referenced by many Extensible Markup Language (XML) documents of the same type.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 702 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-3 - LO15-3 | | *NATIONAL STANDARDS:* | United States - BUSPROG: Analytic | | *TOPICS:* | Extensible Markup Language (XML) | | *KEYWORDS:* | Bloom's: Comprehension | |

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| 20. HTML is designed to facilitate the extraction and manipulation of data from structured documents over the Internet.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 703 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-3 - LO15-3 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Extensible Markup Language (XML) | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 21. The first line of an XML document represents the document declaration, and it is mandatory.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 703 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-3 - LO15-3 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Extensible Markup Language (XML) | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 22. In a document type definition (DTD) file, a plus (+) symbol beside an element indicates that it is an optional child element within its parent.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 704 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-3 - LO15-3 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Extensible Markup Language (XML) | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 23. Cloud services allow any organization to quickly and economically add information technology services to its IT portfolio.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 710 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-4 - LO15-4 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Cloud Computing Services | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 24. The initial costs of using cloud services tend to be significantly higher than building on-premise IT infrastructures.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 712 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-4 - LO15-4 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Cloud Computing Services | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 25. \_\_\_\_\_ is a collection of technologies used to access any type of data source and manage the data through a common interface.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | DAO | b. | UDA | |  | c. | ODBC | d. | OLE-DB |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 682 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 26. ODBC works on the \_\_\_\_\_ operating system.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Kronos | b. | UNIX | |  | c. | Windows | d. | Mac |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 683 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 27. \_\_\_\_\_ is a higher-level, object-oriented application interface used to access remote database servers.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | UDA | b. | ODBC | |  | c. | DAO | d. | RDO |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 683 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 28. In the ODBC architecture, a(n) \_\_\_\_\_ is in charge of managing all database connections.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ODBC API | b. | DLL | |  | c. | ODBC driver | d. | driver manager |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 683 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 29. The ODBC API standard defines three levels of compliance: \_\_\_\_\_, Level-1, and Level-2, which provide increasing levels of functionality.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Elementary | b. | Basic | |  | c. | Core | d. | Level-0 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 685 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 30. Based on Microsoft’s Component Object Model (COM), \_\_\_\_\_ is database middleware that adds object-oriented functionality for access to relational and nonrelational data.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | MS-DB | b. | OLE-DB | |  | c. | COM-DB | d. | ODBC |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 685 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 31. In the ADO.NET framework, the \_\_\_\_\_ object contains the actual SQL code or a stored procedure call to be run by the database.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Command | b. | DataReader | |  | c. | DataAdapter | d. | DataSet |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 690 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 32. In the ADO.NET framework, the \_\_\_\_\_ object is the in-memory representation of the data in the database.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Command | b. | DataReader | |  | c. | DataAdapter | d. | DataSet |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 690 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 33. The \_\_\_\_\_ is the most specialized object in the ADO.NET framework.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Command | b. | DataReader | |  | c. | DataAdapter | d. | DataSet |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 690 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 34. \_\_\_\_\_ is an object-oriented programming language developed by Sun Microsystems that runs on top of web browser software.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Visual Basic | b. | Java | |  | c. | JavaScript | d. | VBScript |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 691 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 35. One of the advantages of \_\_\_\_\_ over other middleware is that it requires no configuration on the client side.   |  |  |  | | --- | --- | --- | |  | a. | ODBC | |  | b. | JDBC | |  | c. | OLE-DB | |  | d. | ADO.NET |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 692 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 36. Which of the following is the first step in the exchange between a web browser and a database?   |  |  |  | | --- | --- | --- | |  | a. | The HTML output is displayed on the client computer’s web browser. | |  | b. | The middleware receives the query result and creates the HTML-formatted page. | |  | c. | The client’s web browser requests a page from a web server. | |  | d. | The web-to-database middleware uses ODBC to connect to the database. |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 693 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 37. Another name for a database server-side extension program is \_\_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | a web server | b. | a web application middleware | |  | c. | web-to-database middleware | d. | a database application server |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 694 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 38. Which of the following is a well-defined web-server interface?   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Common Gateway Interface | b. | Tiny Internet Interface | |  | c. | Windows NT | d. | Command Line Interface |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 695 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 39. The main disadvantage of using CGI scripts is that:   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | they cause a resource bottleneck since they have to execute separately for each user request. | b. | they are specific to the web server and to the operating system, thus being platform dependent. | |  | c. | an error in one script can damage and bring down the web server completely. | d. | they do not have the capability to process forms or prepare outputs based on form data. |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 695 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 40. A(n) \_\_\_\_\_ can use a shared connection to the database instead of creating a new one every time.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | DLL | b. | API | |  | c. | web browser | d. | HTTP GET request |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 695 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 41. What is a disadvantage of using an API web-server interface?   |  |  |  | | --- | --- | --- | |  | a. | It is slower than CGI scripts. | |  | b. | It is inefficient because it uses DLLs. | |  | c. | An external program needs to run for each user request. | |  | d. | An API error can bring down the entire web server. |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 695 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 42. Each time an end user clicks a hyperlink, the browser generates a(n) \_\_\_\_\_ page request that is sent to the designated web server using the TCP/IP Internet protocol.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | HTML | b. | XML | |  | c. | HTTP GET | d. | API |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 696 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 43. The web browser’s job is to interpret the HTML code that it receives from a web server and to:   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | develop web-based applications. | b. | display it in a standard formatted way. | |  | c. | perform immediate data entry validation. | d. | extract details, such as order data, from it. |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 696 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 44. You must use plug-ins and other client-side extensions:   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | to create an open communication line between a server and its clients. | b. | to eliminate the need for running external programs for each client request. | |  | c. | to improve processing capabilities of a browser. | d. | to create dynamic web search pages. |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 697 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 45. Which of the following is a client-side extension?   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ActiveX | b. | ODBC | |  | c. | SQL\*Net | d. | TCP/IP |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 697 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 46. Among client-side extensions, \_\_\_\_\_ is a Microsoft specification for writing programs that run inside the Internet Explorer browser.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | COBOL | b. | ActiveX | |  | c. | JavaScript | d. | Visor.Net |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 697 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 47. \_\_\_\_\_ is a scripting language that allows web authors to design interactive sites.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Visual Basic | b. | HTML | |  | c. | JavaScript | d. | Java |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 697 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 48. Which of the following is true of a web application server?   |  |  |  | | --- | --- | --- | |  | a. | It is Microsoft’s implementation of a superset of the SQL Access Group CLI standard for database access. | |  | b. | It is automatically invoked by the browser when needed. | |  | c. | It runs on the client machine, freeing server resources. | |  | d. | It provides security and authentication of users through user IDs and passwords. |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 698 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 49. \_\_\_\_\_ code is embedded inside an HTML page and is activated by triggering events such as clicking on a link.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | XML | b. | SQL | |  | c. | Visual Basic | d. | VBScript |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 698 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 50. \_\_\_\_\_ is a web application server that provides the ability to connect web servers to multiple data sources.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | MS Access | b. | ColdFusion/JRun | |  | c. | FoxPro | d. | dBase |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 698 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 51. Which of the following is a characteristic of the XML metalanguage?   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | It is concerned with the way data are displayed. | b. | It allows the definition of new tags. | |  | c. | You can use the // symbol for entering a comment in the XML document. | d. | It can be used as a replacement of HTML. |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 702 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-3 - LO15-3 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Extensible Markup Language (XML) | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 52. Every XML document has a \_\_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | root element | b. | base tag | |  | c. | schema | d. | DTD |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 703 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-3 - LO15-3 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Extensible Markup Language (XML) | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 53. A(n) \_\_\_\_\_ file provides the composition of the database’s logical model and defines the syntax rules for an XML document.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | XMLD | b. | XHTML | |  | c. | DTD | d. | meta |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 704 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-3 - LO15-3 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Extensible Markup Language (XML) | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 54. The \_\_\_\_\_ is an advanced data definition language that is used to describe the structure of XML data documents.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | XHTML | b. | HTML schema | |  | c. | DTD | d. | XML schema |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 705 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-3 - LO15-3 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Extensible Markup Language (XML) | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 55. Using \_\_\_\_\_, you can extract data from an XML document and convert it into a text file.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | XMLD | b. | XSLT | |  | c. | DTD | d. | XML schema |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 706 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-3 - LO15-3 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Extensible Markup Language (XML) | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 56. \_\_\_\_\_\_ is a computing model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computer resources that be rapidly provisioned and released with minimal management effort or service provider interaction.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Cloud computing | b. | OBDC | |  | c. | SQL  data services | d. | database middleware |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 709-710 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-4 - LO15-4 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Cloud Computing Services | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 57. \_\_\_\_\_ cloud is a type of cloud infrastructure that is built by a third-party organization to sell cloud services to the general public.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Community | b. | Public | |  | c. | Exclusive | d. | Private |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 712 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-4 - LO15-4 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Cloud Computing Services | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 58. In the\_\_\_\_ category, the cloud service provider offers the capability to build and deploy consumer-created applications using the provider's cloud infrastructure.   |  |  |  | | --- | --- | --- | |  | a. | Application as a Server (AaaS) | |  | b. | Infrastructure as a (IaaS) | |  | c. | Software as a Service (SaaS) | |  | d. | Platform as a Service (PaaS) |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 713 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Cloud Computing Services | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 59. ODBC, OLE-DB, and ADO.NET form the backbone of the \_\_\_\_\_ architecture.   |  |  | | --- | --- | | *ANSWER:* | UDA  Universal Data Access (UDA)  Universal Data Access | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 682 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 60. Open Database Connectivity (ODBC), a superset of the SQL Access Group Call Level Interface (CLI), is implemented by \_\_\_\_\_.   |  |  | | --- | --- | | *ANSWER:* | Microsoft | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 683 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 61. A(n) \_\_\_\_\_ is a unique name by which the data source will be known to ODBC, and therefore, to applications.   |  |  | | --- | --- | | *ANSWER:* | DSN  data source name  data source name (DSN) | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 684 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 62. In the context of OLE-DB, a \_\_\_\_\_ is an object (application or process) that requests and uses data.   |  |  | | --- | --- | | *ANSWER:* | consumer | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 685 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 63. In the OLE-DB model, the \_\_\_\_\_ acts like a data consumer of the data provider and as a data provider for the data consumer (end-user application).   |  |  | | --- | --- | | *ANSWER:* | service provider | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 686 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 64. A(n) \_\_\_\_\_ is a program written in a programming language that is not compiled, but is interpreted and executed at run time.   |  |  | | --- | --- | | *ANSWER:* | script | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 687 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 65. \_\_\_\_\_ provides a unified interface to access data from any programming language that uses the underlying OLE-DB objects.   |  |  | | --- | --- | | *ANSWER:* | ActiveX Data Objects  ADO  ActiveX Data Objects (ADO) | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 687 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 66. The Microsoft \_\_\_\_\_ framework is a component-based platform for developing distributed, heterogeneous, interoperable applications aimed at manipulating any type of data over any network under any operating system and any programming language.   |  |  | | --- | --- | | *ANSWER:* | .NET | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 687 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 67. \_\_\_\_\_ is an application programming interface that allows a Java program to interact with a wide range of data sources (relational databases, tabular data sources, spreadsheets, and text files).   |  |  | | --- | --- | | *ANSWER:* | Java Database Connectivity  JDBC  Java Database Connectivity (JDBC) | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 691 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 68. \_\_\_\_\_ webpages are at the heart of current generation websites.   |  |  | | --- | --- | | *ANSWER:* | Dynamic | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 693 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 69. APIs are faster than \_\_\_\_\_ scripts because the code resides in memory and there is no need to run an external program for each request.   |  |  | | --- | --- | | *ANSWER:* | CGI  Common Gateway Interface  Common Gateway Interface (CGI) | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 695 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Comprehension | |

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| 70. Regardless of the type of web server interface used, a web-to-database \_\_\_\_\_ program must be able to connect with a database.   |  |  | | --- | --- | | *ANSWER:* | middleware | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 696 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 71. A web \_\_\_\_\_ server is a middleware application that expands the functionality of web servers by linking them to a wide range of services.   |  |  | | --- | --- | | *ANSWER:* | application | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 698 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 72. To prevent the server from performing all data validation, \_\_\_\_\_ data input validation is one of the most basic requirements for web applications.   |  |  | | --- | --- | | *ANSWER:* | client-side  client side  clientside | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 698 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 73. \_\_\_\_\_, or transactions done over the Internet, enables all types of organizations to sell products and services to a global market.   |  |  | | --- | --- | | *ANSWER:* | E-commerce | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 702 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-3 - LO15-3 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Extensible Markup Language (XML) | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 74. XML is derived from the \_\_\_\_\_, an international standard for the publication and distribution of highly complex technical documents.   |  |  | | --- | --- | | *ANSWER:* | Standard Generalized Markup Language  SGML  Standard Generalized Markup Language (SGML) | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 702 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-3 - LO15-3 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Extensible Markup Language (XML) | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 75. XML tags must be well formed, that is, each opening tag must have a corresponding \_\_\_\_\_ tag.   |  |  | | --- | --- | | *ANSWER:* | closing | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 703 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-3 - LO15-3 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Extensible Markup Language (XML) | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 76. A(n) \_\_\_\_\_ provides limited additional semantic value to XML, such as data type support or data validation rules.   |  |  | | --- | --- | | *ANSWER:* | DTD  document type definition  document type definition (DTD) | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | p. 705 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-3 - LO15-3 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Extensible Markup Language (XML) | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 77. A DBMS that supports \_\_\_\_\_ exchanges can integrate with external systems such as the web, mobile data, and legacy systems, thus enabling the creation of new types of systems.   |  |  | | --- | --- | | *ANSWER:* | XML | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 708-709 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-3 - LO15-3 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Extensible Markup Language (XML) | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 78. XML is used to create \_\_\_\_\_\_\_ vocabularies for entire industries.   |  |  | | --- | --- | | *ANSWER:* | metadictionaries | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 709 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-3 - LO15-3 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Extensible Markup Language (XML) | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 79. \_\_\_\_\_\_\_\_ refer to a cloud computing-base data management service that provides relational data storage, access, and management to companies of all sizes without the typical high costs of in house hardware, software, infrastructure, and personnel.   |  |  | | --- | --- | | *ANSWER:* | SQL data services (SDS)  SQL data services  SDS | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 716 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-3 - LO15-3 | | *NATIONAL STANDARDS:* | United States - BUSPROG: - Analytic | | *TOPICS:* | Cloud Computing Services | | *KEYWORDS:* | Bloom's: Knowledge | |

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| 80. What are the components in the basic ODBC architecture?   |  |  | | --- | --- | | *ANSWER:* | The basic ODBC architecture has three main components: a high-level ODBC API through which application programs access ODBC functionality, a driver manager that is in charge of managing all database connections, and an ODBC driver that communicates directly to the DBMS. | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 683 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Comprehension | |

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| 81. What are the main types of objects in the OLE-DB model? Explain.   |  |  | | --- | --- | | *ANSWER:* | The functionality of OLE-DB model is divided into two types of objects: consumers and providers.  ​   1. Consumers are objects (applications or processes) that request and use data. Consumers request data by invoking the methods exposed by the data provider objects (public interface) and passing the required parameters. 2. Providers are objects that manage the connection with a data source and provide data to the consumers. Providers are divided into two categories: data providers and service providers.  * Data providers provide data to other processes. Database vendors create data provider objects that expose the functionality of the underlying data source (relational, object-oriented, text, and so on). * Service providers provide additional functionality to consumers. The service provider is located between the data provider and the consumer. The service provider requests data from the data provider, transforms the data, and then provides the transformed data to the data consumer. In other words, the service provider acts like a data consumer of the data provider and as a data provider for the data consumer (end-user application). For example, a service provider could offer cursor management services, transaction management services, query processing services, and indexing services. | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 685-686 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-1 - LO15-1 | | *NATIONAL STANDARDS:* | United States - BUSPROG: Analytic | | *TOPICS:* | Database Connectivity | | *KEYWORDS:* | Bloom's: Comprehension | |

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| 82. What is a server-side extension? Explain.   |  |  | | --- | --- | | *ANSWER:* | A server-side extension is a program that interacts directly with the web server to handle specific types of requests. A server-side extension program retrieves the data from databases and passes the retrieved data to the web server, which in turn sends the data to the client’s browser for display. A server-side extension makes it possible to retrieve and present the query results, but more importantly, it provides its services to the web server in a way that is totally transparent to the client browser. In short, the server-side extension adds significant functionality to the Web server, and therefore to the Internet. | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 693 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Comprehension | |

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| 83. What is JavaScript? How does it work?   |  |  | | --- | --- | | *ANSWER:* | JavaScript is a scripting language (one that enables the execution of a series of commands or macros) that allows web authors to design interactive sites. JavaScript code is embedded in the web page and executed after a specific event, such as a mouse click on an object or a page being loaded from the server into memory. | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | 697 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Comprehension | |

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| 84. Explain the features provided by web application servers.   |  |  | | --- | --- | | *ANSWER:* | Web application servers provide features such as:  - An integrated development environment with session management and support for persistent application variables.  - Security and authentication of users through user IDs and passwords.  - Computational languages to represent and store business logic in the application server.  - Automatic generation of HTML pages integrated with Java, JavaScript, VBScript, ASP, and so on.  - Performance and fault-tolerant features.  - Database access with transaction management capabilities.  - Access to multiple services, such as file transfers (FTP), database connectivity, e-mail, and directory services. | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | p. 698 | | *LEARNING OBJECTIVES:* | DATA.CORO.15.LO15-2 - LO15-2 | | *NATIONAL STANDARDS:* | United States - BUSPROG: Analytic | | *TOPICS:* | Database Internet Connectivity | | *KEYWORDS:* | Bloom's: Comprehension | |