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| | | | |
|---|---|---|---|
| S1. Ans.(d) | S7. Ans.(d) | S13. Ans.(b) | S19. Ans.(c) |
| S2. Ans.(b) | S8. Ans.(e) | S14. Ans.(c) | S20. Ans.(d) |
| S3. Ans.(a) | S9. Ans.(a) | S15. Ans.(c) | S21. Ans.(b) |
| S4. Ans.(c) | S10. Ans.(a) | S16. Ans.(c) | |
| S5. Ans.(a) | S11. Ans.(c) | S17. Ans.(a) | |
| S6. Ans.(b) | S12. Ans.(a) | S18. Ans.(c) | |

**S22. Ans.(a)**
**Sol.** A preprocessor is a program that processes its input data to produce output that is used as input to another program.

| | | | |
|---|---|---|---|
| **S23. Ans.(d)** | **S24. Ans.(a)** | **S25. Ans.(c)** | **S26. Ans.(b)** |

**S27. Ans.(d)**
**Sol.** Shell scripts are interpreted, not compiled

| | | |
|---|---|---|
| **S28. Ans.(b)** | **S29. Ans.(c)** | **S30. Ans.(c)** |

**S31. Ans.(a)**
**Sol.** In a preorder traversal, first the parent is visited, then the left child and finally the right child.

| | | | |
|---|---|---|---|
| **S32. Ans.(a)** | **S33. Ans.(d)** | **S34. Ans.(b)** | **S35. Ans.(b)** |
| **S36. Ans.(d)** | | | |

**S37. Ans.(d)**
**Sol.** The best-case complexity occur in bottom-up construction when we have a sorts array given.

| | | | |
|---|---|---|---|
| **S38. Ans.(c)** | **S39. Ans.(b)** | **S40. Ans.(b)** | **S41. Ans.(d)** |

**S42. Ans.(d)**
**Sol.** The unique specification says that no two tuples in the relation can be equal on all the listed attributes.

| | |
|---|---|
| **S43. Ans.(c)** | **S45. Ans.(c)** |
| **S44. Ans.(a)** | **S46. Ans.(c)** |

**S47. Ans.(a)**
**Sol.** On Amazon EC2, a client would provision a computer in the form of a virtual machine image

**S48. Ans.(c)**
**Sol.** A synonym is an alias or alternate name for a table, view, sequence, or other schema object. They are used mainly to make it easy for users to access database objects owned by other users.

**S49. Ans.(c)**                    **S50. Ans.(d)**

**S51. Ans.(d)**
**Sol. POP** is short for **Post Office Protocol**, a protocol used to retrieve e-**mail** from a **mail** server. Most e-**mail** applications (sometimes called an e-**mail** client) use the **POP** protocol, although some can use the newer IMAP (Internet Message Access Protocol).
"IMAP" stands for "**Internet Message Access Protocol**." It is better than POP for accessing mail from multiple locations because it leaves the mail messages on the mail server. This lets you read the same messages regardless of what computer you use to read your e-mail.

**S52. Ans.(a)**
**Sol.** RAD model is Rapid Application Development model. It is a type of **incremental model**. In RAD model the components or functions are developed in parallel as if they were mini projects. The developments are time boxed, delivered and then assembled into a working prototype. This can quickly give the customer something to see and use and to provide feedback regarding the delivery and their requirement.

**S53. Ans.(b)**
**Sol.** A pointer is a variable which contains the address in memory of another variable.

**S54. Ans.(b)**
**Sol.** This format is only one byte long.

**S55. Ans.(a)**
**Sol.** A dongle is a mechanism for ensuring that only authorized users can copy or use specific software application, epically for very expensive programs. Common mechanism includes a hardware key that plugs into a parallel or serial port on a computer and that a software application accesses for verification before continue to run.

**S56. Ans.(b)**
**Sol.** Encapsulate provides contract to other object to what to hide and what to expose which can be accessed other objects. In java we use private access modifier to hide method and variable to restrict from outer world.

**S57. Ans.(c)**
**Sol.** Star networks are one of the most common computer network topologies. In its simplest form, a star network consists of one central hub which acts as a conduit to transmit messages.

**S58. Ans.(d)**
**Sol. Flexcube** is designed by Oracle Corporation. This software package is used by some of the reputed Banks of the world like City Bank. Here is the list of Indian banks that use Flexcube Software Packages- Canara Bank, Karur Vysya Bank, Lakshmi Vilash Bank, Syndicate Bank, Yes Bank.

**S59. Ans.(c)**
**Sol.** Unicode defines fully international character set that can represent all the characters found in all human languages. Its range is from 0 to 65536.

**S60.Ans-(d)**
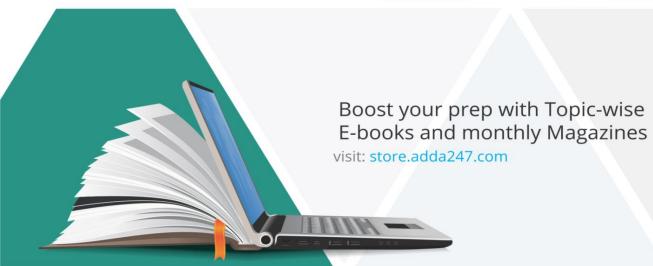**Sol. Merge Sort** is an efficient, general-purpose, comparison-based sorting algorithm. Complexity of merge sort is O (n log n).