

1. **Normalisation in data mining is a**
- a. data transformation process
  - b. data discretisation process
  - c. data integration process
  - d. data redundancy removal process
- 
2. **A prime attribute of a relation scheme R is an attribute that appears**
- a. in all candidate keys of R
  - b. in some candidate key of R
  - c. in a foreign key of R
  - d. only in the primary key of R
- 
3. **The addressable memory in a Pentium IV microprocessor is**
- a. 32 MB
  - b. 16 GB
  - c. 64 GB
  - d. 4 GB
- 
4. **The transport layer protocols used for real time multimedia, file transfer, DNS and email, respectively are**
- a. TCP,UDP,UDP and TCP
  - b. UDP,TCP,TCP and UDP
  - b. UDP,TCP,UDP and TCP
  - d. TCP,UDP,TCP and UDP
- 
5. **One of the purposes of using intermediate code in compilers is to**
- a. make parsing and semantic analysis simpler
  - b. improve error recovery and error reporting
  - c. increase the chances of reusing the machine-independent code optimizer in other compilers
  - d. improve the register allocation
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6. **The preorder traversal sequence of a binary search tree is 30,20,10,15,25,23, 39,35,42. Which one of the following is the postorder traversal sequence of the same tree?**
- a. 10,20,15,23,25,35,42,39,30
  - b. 15,10,25,23,20,42,35,39,30
  - c. 15,20,10,23,25,42,35,39,30
  - d. 15,10,23,25,20,35,42,39,30

7. Which of the following is true

- a. every relation in 3NF is also in BCNF
  - b. a relation R is in 3NF if every non-prime attribute of R is fully functionally dependent on every P of R
  - c. every relation in BCNF is also in 3NF
  - d. no relation can be in both BCNF and 3NF
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8. The Direction Flag of the flag register of a microprocessor is used with

- a. string operations
  - b. logical operations
  - c. arithmetic operations
  - d. input/output operations
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9. A data mining system for navigation is mainly based on

- a. text data base
  - b. image database
  - c. spatial data base
  - c. audio data base
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10. The star schema of a data warehouse consists of

- a. 1 fact table
  - b. 2 fact tables
  - c. no fact tables
  - d. 5 fact tables
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11. When inheritance is private, the private in base class are ——— in the derived class.

- a. inaccessible
  - b. accessible
  - c. protected
  - d. private
- 

12. The Worst case occurs in the linear search algorithm when

- a. The item to be searched is in some where middle of the array
- b. The item to be searched is not in the array
- c. The item to be searched is in the first of the array
- d. The item to be searched is either in the first or not in the array

**13. Which of the following statements is false about event handlers in JavaScript?**

- a. They can be included with input tags
  - b. They can be associated with end of file processing for a database application
  - c. They can be included with the form tag
  - d. They are generally used to call functions when triggered
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**14. In the top level Domains, .nom specifies**

- a. Commercial entities
  - b. Personal sites
  - c. Non government organizations
  - d. Online companies and business
- 

**15. The Apriori algorithm is used in data mining for**

- a. classification
  - b. clustering
  - c. outlier Analysis
  - d. frequent pattern generation
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**16. The HALT instruction is a privileged instruction that can be only used by**

- a. execution unit
  - b. operating system
  - c. control unit
  - d. memory unit
- 

**17. If there is a trace cache miss, then the instruction bytes are required to be fetched from the**

- a. instruction decoder
  - b. Level2 cache
  - c. execution module
  - d. none of these
- 

**18. Identify the Test Release, which is typically for internal circulation only**

- a. Gamma Release
  - b. Beta Release
  - c. Sigma Release
  - d. Alpha Release
- 

**19. PICT represents**

- a. Image File Format for Windows
  - b. Image File Format for DOS
  - c. Image File Format for Macintosh
  - d. Image File Format for OS/2
-



20. What modifier is to be used If you wish to declare that you want to no longer allow subclasses to override your variables or methods?

- a. Finally                      b. Abstract                      c. Final                      d. Synchronized
- 

21. AWT stands for

- a. Advanced windowing tool kit                      b. Abstract Windowing Term Kit  
c. Abstract Windowing Tool Kit                      d. Applet Window Tool Kit
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22. When trying to access a URL, the following message is displayed on the browser: **Server; Error 403**

What could be the reason for the message?

- a. The URL refers to a CGI script and the header of the script does not indicate where the interpreter is located  
b. The path to the interpreter of the script file is invalid  
c. The first line of the output from the script is not a valid HTTP header  
d. The requested HTML file or CGI script has insufficient permission
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23. HTML 5 element used to draw graphics via scripting is

- a. <figcaption>                      b. <mark>                      c. <canvas>                      d. <header>
- 

24. A process executes the code

```
fork();
```

```
fork();
```

```
fork();
```

The total number of child processes created is

- a. 3                      b. 5                      c. 7                      d. 9
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