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Question Paper Code: 47802

B.E/B.TECH DEGREE END SEMESTER EXAMINATIONS –MAY 2018

Seventh Semester

Information Technology

14UIT702 ADVANCED DATABASE SYSTEMS

(Regulation 2014)

Duration: 3 Hours

Maximum: 100 Marks

PART -- A (10 X 1 = 10 Marks)

(Answer all Questions)

1. The commands that can be issued against database by clients are known as -----
(a) Queries (b) Sequence (c) View (d) Cursor
2. ----- scheme is ideally suited for applications that wish to read the entire relation sequentially for each query
(a) Hash partitioning (b) Range partitioning (c) Round-robin (d) None of these
3. In object-oriented model, one object can access data of another object by passing
(a) Instance variable (b) Messaging (c) Variable (d) None of these
4. Object based data model are used in describing the abstraction of the following
(a) Only physical (b) Conceptual and view
(c) Physical and conceptual (d) Logical
5. ----- HTTP request is used to upload the resources to the servers
(a) GET (b) POST (c) UPLOAD (d) PUT
6. There are ----- primary methods available for passing information from the browser to a CGI script
(a) Four (b) Two (c) Five (d) Six
7. The model that has been used for specifying active database rules is referred to as the -----
(a) Execution – Condition – Auto (b) Execution – Condition – Active
(c) Evaluation – Condition – Active (d) Event – Condition – Active
8. The ---- will make the rule active again
(a) Activate command (b) Drop command
(c) Delete command (d) Create command

9. ----- process derives elevation data for points at which no samples have been taken
 (a) Interpretation (b) Interpolation
 (c) Proximity analysis (d) Analysis of networks
10. Key components of spatial data quality include
 (a) Positional accuracy (b) Temporal accuracy
 (c) Logical accuracy (d) All the above

PART - B (5 X 2 = 10 Marks)

11. Define parallel database system.
12. State types of constructor .
13. List out advantages of XML.
14. What is trigger? Give an example .
15. Define temporal database .

PART - C (5 X 16 = 80 Marks)

16. (a) (i) Explain centralized database architecture. (8)
- (ii) Distinguish parallel and distributed database system. (8)

Or

- (b) (i) Express about parallel database with inter and intra query parallelism. (8)
- (ii) Describe inter and intra operation parallelism. (8)
17. (a) (i) Analyze the different concepts of object database. (8)
- (ii) Distinguish object oriented and relational database. (8)

Or

- (b) Analyze the components of ODMG model. (16)
18. (a) Summarize the advantages and disadvantages of the web-DBMS approach. (16)

Or

(b) Summarize the native XML databases. (16)

19. (a) Develop a Enhanced data model with examples. List the applications of ERM. (16)

Or

(b) Develop a Temporal database for online shopping and describe it. (16)

20. (a) Evaluate the performance of the mobile database for different applications. (16)

Or

(b) Explain the importance of spatial data management. Discuss the various indexing techniques of spatial data management and evaluate the performance. (16)

