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PK-432

M.Sc. IV Semester Computer Science (Reg./ATKT) Examination June 2018

DATA WAREHOUSING & MINING

Elective Paper (any one)

Paper - IV (ii)

Time Allowed : Three Hours]   *[Maximum Marks : 85*

Note : Attempt all questions. http://www.onlinebu.com

Section - A

Objective Type Questions

Q.1. Choose the correct answer: 10×1=10

i) The data warehouse is _____

    (a) Read only

    (b) Write only

    (c) Read write only

    (d) None of these

http://www.onlinebu.com

ii) DSS is _____

    (a) Decision single system

    (b) Decision support system

    (c) Data storable system

    (d) None of these

iii) OLTP is _____ http://www.onlinebu.com

    (a) Online transaction processing

    (b) Online transmission process

    (c) Online transfer process

    (d) None of these

iv) Star schema is composed of _____ fact table

    (a) 1

    (b) 2

    (c) 3

    (d) 4

v) Data can be updated in _____ environment

    (a) Data mining

    (b) Operational

    (c) Data warehouse

    (d) Informational http://www.onlinebu.com

vi) _____ are responsible for running queries and reports against data warehouse tables
   (a) Hardware
   (b) Software
   (c) End users
   (d) None of these

vii) _____ is data about data.
   (a) Meta data   http://www.onlinebu.com
   (b) Multi data
   (c) Multiple data
   (d) Microdata

viii) KDD is _____
   (a) Knowledge data definition
   (b) Knowledge database
   (c) Knowledge discovery in database
   (d) None of these

ix) _____ maps data into predefined groups.
   (a) Classification
   (b) Time series analysis
   (c) Regression
   (d) Prediction   http://www.onlinebu.com

x) Data mining helps in _____
   (a) Inventory management
   (b) Sales promotion strategies
   (c) Marketing strategies
   (d) All of the above

Section - B

Short Answer Type Questions

http://www.onlinebu.com   5×5=25

Q.2. What do we mean by strategic information? How it is useful for an enterprise?

OR

Write short note on:
a) Data marts
b) Meta data

Q.3. Discuss star schema with suitable example.

OR   http://www.onlinebu.com

Explain snow flake schema with suitable example.

Q.4. Explain the various DBA responsibilities.

OR

How one can plan the capacity of a data warehouse.

Q.5. Illustrate any two techniques of recovery.

OR

Discuss the various data warehouse deployment activities. http://www.onlinebu.com

Q.6. What is web mining? Explain the webmining tools.

OR

Differentiate between the classification and clustering.

Section - C

Long Answer Type Questions

5×10=50

Q.7. Define data warehouse. Discuss the need and characteristics of data warehouse.

OR

Differentiate between the following:

a) Operational versus analytical databases

b) Data warehouse and data mining

Q.8. Discuss the various OLAP models and operations with example. Also differentiate between OLAP and OLTP. http://www.onlinebu.com

OR

Discuss the Data cube presentation of fact table with example. http://www.onlinebu.com

Q.9. Discuss the architectural components of the data warehouse in the three major area with diagram.

OR

Discuss the characteristics of data warehouse architecture. Also give differences between operational and physical data.

Q.10. How will you implement data warehouse? Discuss its physical design and storage.

OR

How data security is ensure in data warehouse? How will you backup and recover data.

Q.11. Explain the following: (any three)

a) Data mining techniques

b) Association rules

c) KDD http://www.onlinebu.com

d) Data mining

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