

ND-129

November-2022

B.Com., Sem.-V

**CE 302 D : Computer Application
(Data Warehousing & Data Mining)**

Time : 2½ Hours]

[Max. Marks : 35

સૂચનાઓ : (1) બધા પ્રશ્નોના ગુણ એક સરખા છે.

(2) પ્રશ્નોના ગુણ જમણી બાજુએ લખેલ છે.

(3) બધા પ્રશ્નો ફરજિયાત છે.

1. (A) Data Warehouseના સંદર્ભમાં Farmer અને Explorer વિશે વિસ્તારથી સમજાવો. 4
(B) Data Warehousingની application લખો અને સમજાવો. 3
અથવા
(A) Data Warehouse એટલે શું? તેનું Structure વિસ્તારથી સમજાવો. 4
(B) Data Warehouseને સ્થાપિત કરવાના સંદર્ભમાં Cost અને ફાયદા દર્શાવો. 3
2. (A) Data Warehouseનું architecture વિસ્તારથી સમજાવો. 4
(B) Data Store એટલે શું? સમજાવો. 3
અથવા
(A) Data Warehouseની લાક્ષણિકતાઓ (Characteristics) સમજાવો. 4
(B) Meta Data એટલે શું? સમજાવો. 3
3. (A) Data Mining અને Data warehouseની વચ્ચેનો તફાવત સમજાવો. 4
(B) OLAP સમજાવો. 3
અથવા
(A) Data Miningનું મહત્ત્વ સમજાવો. 4
(B) MOLAP સમજાવો. 3

4. (A) Excelમાં સહસંબંધને શોધવાના steps લખો અને formula આપો. 4
(B) Excelમાં Variance અને Co-Variance formula સાથે સમજાવો. 3

અથવા

- (A) Excelમાં Histogram chart દોરવાના steps લખો. 4
(B) Excelમાં Surface chart અને Bubble chart વચ્ચેનો તફાવત સમજાવો. 3
5. નીચેનામાંથી કોઈપણ સાત (7) ના જવાબો આપો : 7
- (1) નીચેનામાંથી _____ એ Mini Warehouse છે.
- (a) Data Warehouse (b) Data Mart
(c) Fact table (d) Index
- (2) MOLAP નું પૂરું નામ _____ છે.
- (a) Multiple Online Advance Project
(b) Multidimensional Analysis Project
(c) Multidimensional Online Project
(d) Multidimensional Online Analytical Processing
- (3) _____ એ Meta Data છે.
- (a) Information of Data (b) Data about Data
(c) Knowledge of Data (d) ઉપરના બધા જ
- (4) KDD નું પૂરું નામ _____ છે.
- (a) Knowledge Data Discovery
(b) Knowledge Discovery Data
(c) Knowledge Discovery Database
(d) કોઈ નહીં

- (5) Data warehouse એ _____ ની process છે.
- (a) Querying (b) Reporting
(c) Analysis (d) બધા જ
- (6) Association ની _____ નિયમમાં દરેક Items બંને side જોવા મળે છે.
- (a) Lift (b) Confidence
(c) Support (d) ઉપરના કોઈ નહીં
- (7) Excelમાં સહસંબંધ _____ formulaની મદદથી શોધી શકાય છે.
- (a) CORELATION (Array 1, Array 2)
(b) CORREL (Array 1, Array 2)
(c) CORRELATION (Array 1, Array 2)
(d) કોઈ નહીં
- (8) _____ chartનો ઉપયોગ અલગ-અલગ categories અને Values Compare કરવા માટે થાય છે.
- (a) Pie chart (b) Column chart
(c) Line chart (d) Dot chart
- (9) _____ function દ્વારા "True" અથવા "Not" condition ચેક કરી શકાય છે.
- (a) SUM() (b) COUNT()
(c) IF() (d) AVERAGE()
- (10) Columnમાં લખેલ itemsને sequence અથવા orderમાં ગોઠવવા માટે _____ નો ઉપયોગ થાય છે.
- (a) Arrengin (b) Autofill
(c) Sorting (d) Filtering

(11) _____ ના ઉપયોગ દ્વારા expenditure (ખર્ચ) જે અલગ-અલગ વિભાગોના હોય તેને graphically બતાવી શકાય છે.

(a) Column chart

(b) Line chart

(c) Pie chart

(d) Dot chart

(12) _____ ની અંદર Excel documents Files સ્વરૂપે સ્ટોર થાય છે.

(a) Workgroups

(b) Worktables

(c) Worksheets

(d) Workforce

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- Instructions :**
- (1) All questions have equal marks.
 - (2) Marks of questions are at right side.
 - (3) All questions are compulsory.

1. (A) Explain Farmer and Explorer in detail in relation to Data Warehouse. 4
(B) Explain and write the application of Data Warehousing. 3

OR

(A) What do you mean by Data Warehouse ? Explain its structure in detail. 4
(B) Narrate the advantage and cost in establishing Data Warehouse. 3
2. (A) Explain in detail the architecture of Data Warehouse. 4
(B) What is Data Store ? Explain. 3

OR

(A) Explain the characteristics of Data Warehouse. 4
(B) What is Meta Data ? Explain. 3
3. (A) Explain the difference between Data Mining and Data Warehouse. 4
(B) Explain : OLAP. 3

OR

(A) Explain the importance of Data Mining. 4
(B) Explain : MOLAP. 3

4. (A) Write the steps to find correlation with formula in Excel. 4
(B) Explain variance and co-variance with formula in Excel. 3

OR

- (A) Write the steps of designing Histogram chart in Excel. 4
(B) Explain the difference between Surface chart and Bubble chart. 3

5. Write the answer of any 7 from the following : 7

(1) _____ is called Mini Warehouse from the following :

- (a) Data Warehouse (b) Data Mart
(c) Fact table (d) Index

(2) Full form of MOLAP is _____.

- (a) Multiple Online Advance Project
(b) Multidimensional Analysis Project
(c) Multidimensional Online Project
(d) Multidimensional Online Analytical Processing

(3) _____ is called Meta Data.

- (a) Information of Data (b) Data about Data
(c) Knowledge of Data (d) All of the above

(4) Full form of KDD is _____

- (a) Knowledge Data Discovery
(b) Knowledge Discovery Data
(c) Knowledge Discovery Database
(d) None

- (5) Data Warehouse is a process of _____.
- (a) Querying (b) Reporting
(c) Analysis (d) All of the above
- (6) In the Association at _____ rule, every item is seen on both sides.
- (a) Lift (b) Confidence
(c) Support (d) None of the above
- (7) In Excel, correlation can be found using _____ formula.
- (a) CORELATION (Array 1, Array 2)
(b) CORREL (Array 1, Array 2)
(c) CORRELATION (Array 1, Array 2)
(d) None of the above
- (8) _____ chart is used to compare different categories and values.
- (a) Pie chart (b) Column chart
(c) Line chart (d) Dot chart
- (9) _____ function is used to check "True" or "Not" condition.
- (a) SUM() (b) COUNT()
(c) IF() (d) AVERAGE()
- (10) "Items" written in column can be arranged in a sequence or order by _____.
- (a) Arrengin (b) Autofill
(c) Sorting (d) Filtering

(11) To show expenditure of different sections, _____ is used to represent it graphically.

- (a) Column chart
- (b) Line chart
- (c) Pie chart
- (d) Dot chart

(12) Excel documents are stored in _____ as files.

- (a) Workgroups
- (b) Worktables
- (c) Worksheets
- (d) Workforce

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