PART A

Q. No. 1. Expand the following
1. DBMS
2. GDSS
3. ESS
4. VBA
5. MSD
6. OLAP
7. OLTP
8. WWW

Q. No. 2 Fill in the blanks
1. DSS is ------Support System, a powerful tool integrating scientific methods for supporting complex decisions.
2. Full form of AI is -----------
3. Decision Support System are a ------of computer-based information system (CBIS)
4. A DBMS serves as a-----for the DSS
5. Expert systems (ESs) are an instance of -------
6. Meta Data is data about -------
7. ------technique consider data tuples as objects

Q. No. 3 Match the following

<table>
<thead>
<tr>
<th>Column A</th>
<th>Column B</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) VBA</td>
<td>1 Is equal to CFE/MAD</td>
</tr>
<tr>
<td>b) Regression &amp; Log-linear Models</td>
<td>2 Method for time series forecasting</td>
</tr>
<tr>
<td>c) PCA</td>
<td>3 Language to write excel program</td>
</tr>
<tr>
<td>d) ESs</td>
<td>4 Used to approximate the given data</td>
</tr>
<tr>
<td>e) Tracking Signals</td>
<td>5 Method of data compression</td>
</tr>
<tr>
<td>f) Moving Average</td>
<td>6 An instance of DSSs with unique characteristics</td>
</tr>
<tr>
<td>g) Qualitative Methods</td>
<td>7 Popular form of data reduction</td>
</tr>
<tr>
<td>h) Histogram</td>
<td>8 Delphi Technique</td>
</tr>
</tbody>
</table>
Q. No. Find True or False of the following
1) PEST analysis is helps to assess the potential & suitability of a market
2) CRM stands for Customer Relationship Management
3) The data management method is a main system of a computer based decision support system
4) PCA is Prime Computer Analysis
5) Data Mining is also called as data or knowledge discovery
6) DWT stands for discrete wavelet transform
7) Sampling can be used as a data reduction technique
8) PCA & K-L Methods both are not same

Part B
Q.No.5 a)What is data mining
b)Describe the architecture of data mining

Q. No. 6. Write short notes on (any two) (8+8)
1.a) Simon’s Model
   b) Payback analysis
2 a) VBA
   b)Macro
3 a) Data Warehouse
   b) Meta Data
4 a) Wavelet Transformation
   b) Numerosity Reduction

Q. No. 7 a) Discuss the advantage & disadvantage of DSS
b) What are the characteristics & objectives of DSS
Q. No. 8 a) What are the components of DSS
b) Write short notes on DBMS
Q. No. 9 Distinguish between
a) OLTP & Data Warehouse
   b) Data warehousing & data mining
Q. No. 10

Part C
(Case Study)
Following data for analysis include the attribute age. Use Z-score normalization to transform the value 34 for age, where the standard deviation of age is 12.74 years.

11,13,15,16,19,20,21,22,22,25,25,25,26,30,33,34,35,35,35,35,36,40,45,46,52,68
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