Data warehousing and data mining, question 2063

Attempt all questions:
Q. 1 what is Data Mining? Is it deferent from data warehouse? Explain the application of data mining in biomedical, CRM & Telecom Industries. [2+2+6]

Q. 2 is KDD a Data Mining? explain the phases of KDD with example. [2+8]

Q. 3 "**The Kathmandu Mall**" one of the largest departmental stores in the valley. Assume your project team got the opportunity to build the warehouse system of this departmental store. Develop the process architecture of the warehouse system and explain how you manage the responsibilities to build the warehouse. [10]

Q.4 why do we need cluster analysis? Differentiate between hierarchical and partitioning clustering technique. Identify the cluster of the following instances using K-Means clustering algorithm.   [2+10]

Instance	X	Y
1	1.0	1.5
2	2.5	5.5
3	1.5	1.0
4	2.0	3.0
5	2.5	3.5
6	4.0	6.2

Q. 5 what are the differences between OLAP & OLTP? Define OLAP operations, fact table and dimension table.   [3+6]

Q. 6 write Apriori algorithm. Identify the candidate and large item sets of the following transaction table. Use Apriori algorithm with minimum support 2.   [2+10]

TID	Items
10	A, C, D
20	B, C, E
30	A, B, C, E
40	B, E

Q. 7 what is web mining? Explain with its importance.   [2+6]

Q. 8 Write short note on (Any Three)[3+3+3]
        [a] Neural Networks
        [b] DSS
        [c] Data Preprocessing
        [d] Data Marts & Metadata in DW
        [e] Architectural Aspects of Data Mining