

Master of Technology
Third Semester Main Examination, Dec-2020
Data Mining and Warehousing [MTCTA301(1)]

Time: 3:00 Hrs

Max Marks 70

Note : Attempt any five questions. All question carry equal marks.

- Q.1 (a) Explain all challenges that arise during data mining
(b) Before extracting knowledge from the data, we need to apply some important steps on it. Explain those steps.
- Q.2 (a) Explain Data mining issues related to performance, How these issues can be resolved?
(b) Explain with suitable example that partitioning algorithm read or scan database only two times in order to get frequent item sets.
- Q.3 (a) Write and Explain DBSCAN cluster approach.
(b) What do you mean by hierarchical clustering?
- Q.4 (a) Differentiate K-method with K-mean in the context of performance. Write CLARANS algorithm.
(b) What are the different types of web mining? Explain?
- Q.5 (a) Write the short note on following:
(i) Event prediction
(ii) Time series analysis.
(b) What do you mean by content based image and video retrieval
- Q.6 (a) What do you mean by content based image and video retrieval.
(b) Explain the applications of data mining in banking and commerce area?
- Q.7 (a) How rules are generated when we have frequent items sets? Explain with example.
(b) How to generate the rules from the frequent items set? Explain the importance of support and confidence in rule generation.
- Q.8 (a) Explain different techniques to measure the effectiveness of data mining algorithm.
(b) Is there any method to generate association rules without candidate items sets.

Master of Technology
Third Semester Main Examination, Dec-2020
Software Testing and Quality Assurance [MTCTA302(1)]

Time: 3:00 Hrs

Max Marks 70

Note : Attempt any five questions out of seven.
All question carry equal marks.

- Q.1 What is test metric? List the various test metrics associated with software testing. Explain any two.

- Q.2 What do you mean by micro and macro processes of object oriented technology.
- Q.3 How is object oriented testing id different than procedural testing? Explain.
- Q.4 What are the test comparators? How is activity of debugging different from testing.
- Q.5 Explain about various techniques for defect prevention in quality assurance beyond testing.
- Q.6 Explain the following term:
(i) Test case and test planning
(ii) Test suite
(iii) Test obligation
- Q.7 State the purpose of SQA planning and discuss about the various steps involved various SQA planning.
- Q.8 Define software reliability. What is different between hardware and software reliability.