

Master of Technology
Third Semester Main Examination, December 2021
Data Mining and Warehousing [MTCSE301(1)]

Time: 3:00 Hrs

Max Marks 70

Note : Attempt any five questions.

All questions carry equal marks.

- Q.1 What is difference between the three main types of data warehouse usage. Information processing, Analytical processing and data mining.
- Q.2 Explain in detail about data discretization and concept hierarchy generation.
- Q.3 Describe challenges to data mining of regarding data mining methodology and uses interaction issues.
- Q.4 Explain in detail about various dimensionality reduction techniques.
- Q.5 Evaluate the need for data preprocessing by taking example of an application of your choice.
- Q.6 Write short note on any two of the following.
i) Data mart
ii) Confusion matrix
iii) Metadata repository.

Master of Technology
Third Semester Main Examination, December 2021
Network Security & Cryptography [MTCSE302(1)]

Time: 3:00 Hrs

Max Marks 70

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

- Q.1 List and briefly define types of cryptanalogy attacks depending on what is known to the attacker.
- Q.2 Explain DES algorithm . what is the purpose of the S-boxes in DES ?
- Q.3 What requirements must a public-key cryptosystem fulfill to be a secure algorithm?
- Q.4 Explain the following terms:
i) Public key algorithm .

ii) Public key certification

iii) Public key distribution of secret keys
- Q.5 What do you mean by cyber crimes? Discuss the nature and type of cyber-crimes what are the challenges before it ?
- Q.6 What do you understand by digital signature ? discuss the use of digital signature in E-governance. Explain its.
- Q.7 Explain with example the motivation of terrorists and rogues to attack network.
- Q.8 Cybercrime what do you understand by money laundering ? Explain with example.