Question Bank for ESE

**Chapter 3**

1. Explain the challenges involved in processing of the clinical text. (10)

Answer : Chapter 7 7.4 Challenges involved in processing of the clinical text

page number 261 to 263

1. Explain precision and recall with suitable example. (5)

Answer:

1. Explain different steps used in preprocessing of clinical NLP system in detail. (10)

Answer: Chapter 7 7.3.1.1 Preprocessing Steps for clinical text data , Page Number: 251 and 252

1. Explain five main modules of information extraction in clinical NLP system (10)

Answer:

**Chapter 4**

1. Explain the methods to detect outbreaks of infectious diseases in detail (10)

Answer: Chapter 9- 9.2 page Number 311

1. How can social media analysis be used to analyze and track the spread of the pandemic? Explain (10)

Answer-

1. Explain the use of social media for detection of reports of adverse medical events and drug reactions. (10)

Answer: Chapter 9-9.3.2 Page Number 325

1. How can data from online doctor and patient communities be analyzed for clinical purpose? Explain in detail (5)

Answer: Chapter 9- 9.4.2 Page number 329

**Chapter 5**

1. Explain decision tree and artificial neural networks as clinical prediction models. (10)

Answer: 10.3.1 and 10.3.2 Page 352

1. Write a detail note on sequential pattern mining for EHR data. (10)

Answer: 11.3.1 Page number 383 to 385

1. List the standard techniques to visualize medical data. (5)

Answer: 12.2.2 Page Number- 405

1. Explain different privacy preserving data publishing methods for information retrieval of healthcare data. (10)

Answer: 15.3 Page number 511-523

**Chapter 6**

1. Explain the concept of smart hospital with suitable example (5)

Answer: 16.5.6 Page Number-558

1. How to identify healthcare fraud from type of medical data? What are the challenges associated with it ? (10)

Answer: 17.4 Page number: 582-584

1. What is spontaneous reporting systems (SRS)? Explain two types of Spontaneous reporting systems in detail

Answer: 18.3 Page Number: 608-610