

(3 Hours)

Total Marks: 80

N.B. (1) Question No.1 is compulsory
(2) Attempt any three questions out of remaining five questions.

- Q.1 (a) Discuss the sources of healthcare data analysis. (5)
(b) Describe Systematized Nomenclature of Medicine Clinical Terms (SNOMED-CT). (5)
(c) Describe the categories of clinical prediction tasks (5)
(d) Define Advanced Data Analytics for Healthcare with real-world applications. (5)
- Q.2 (a) How could advances in genome analysis lead to more personalize medicine? (10)
(b) What is visualization? Explain different types of visualization techniques, tools with Advantages and Disadvantages. (10)
- Q.3 (a) Illustrate Predictive Modelling in Healthcare with few examples (10)
(b) Explain the significance of Digital Imaging and Communications in Medicine (DICOM). (10)
- Q.4 (a) Explain validation of clinical prediction models. (10)
(b) Explain types of Fraud detection in healthcare with the help of example. (10)
- Q.5 (a) What are the challenges one may face while processing covid clinical reports? (10)
(b) Explain impact of Social Media Analysis for Detection and Tracking of Infectious Disease Outbreaks (10)
- Q.6 (a) Write short note on (any four) (20)
1. BAN
2. Dense/Mesh area network for smart living environment
3. Electronic Health Record
4. Image Registration
5. Feature Extraction
