

Question Paper

Exam Date & Time: 24-Jun-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MASTERS IN HOSPITAL ADMINISTRATION DEGREE EXAMINATIONS - JUNE 2022
SUBJECT: MHA 563.1 - HEALTHCARE ANALYTICS
BLOCK - VI (REGULARS)

Marks: 60

Duration: 180 mins.

Answer all the questions.

Use examples/case studies/block diagrams wherever necessary.

- 1) Describe the different data types in python programming language. (5)
- 2) Explain looping statement in Python with an example. (5)
- 3) Explain the significance of database management system in hospital administration. (5)
- 4) Discuss creation of a table with an example. (5)
- 5) What is Analytics? Explain in the context of healthcare domain. (5)
(2+3 = 5 marks)
- 6) Discuss about clinical data warehouse with a neat block diagram. (5)
- 7) Explain the need for data visualization in healthcare sector. (5)
- 8) List the classification of visualizations. Explain any two classifications. (5)
(1+4 = 5 marks)
- 9) What is Supervised and Unsupervised learning? Explain its relevance in the healthcare analytics. (5)
(2+3 = 5 marks)
- 10) What is an Artificial Neural Network? Distinguish the biological and artificial neural network. (5)
(1+4 = 5 marks)
- 11) Discuss the applications of clustering in different fields. (5)
- 12) What is Big Data? List the major challenges of Big Data. (5)
(1+4 = 5 marks)

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