

Post Graduate Diploma in Management (Hospital & Health Management)

PGDM – 2022-24 Batch

2nd Year - 6th Term Examination

Course & Code	: Introduction to Health Data Mining & Datawarehouse- HIT 713	Reg. No.	:
Term & Batch	: VI, 2022-24	Date	: 24-01-2024
Duration	: 3 Hrs.	Max. Marks	: 70

Instructions:

- Budget your time as per the marks given for each question and write your answer accordingly.
 - Don't write anything on the Question Paper except writing your Registration No.
 - Mobile Phones are not allowed even for computations.
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Part A: Q. 1 to Q.10 (10 questions*1 marks = 10 marks).

One liner, MCQs, True/False

Q.1 Data warehouse is

- (a) The actual discovery phase of a knowledge discovery process
- (b) The stage of selecting the right data for a KDD process
- (c) A subject-oriented integrated time-variant non-volatile collection of data in support of management
- (d) None of these

Q.2 What is true about data mining?

- A. Data Mining is defined as the procedure of extracting information from huge sets of data.
- B. Data mining also involves other processes such as Data Cleaning, Data Integration, Data Transformation
- c. Data mining is the procedure of mining knowledge from data.
- D. All of the above.

Q.3is not a data mining functionality?

- A) Clustering and Analysis
- B) Selection and interpretation
- C) Classification and regression
- D) Characterization and Discrimination

Q.4 Which of the following is not belong to data mining?

- (A). Knowledge extraction
- (B). Data transformation
- (C). Data exploration
- (D). Data archaeology

Q.5 OLTP stands for

- (a) Online Transactional Processing
- (b) On Link Transactional Processing
- (c) Online Transactions Processing
- (d) Online Transactional Program

Q.6 Data warehouse contains _____data that is seldom found in the operational environment

Select one:

- a) informational
- b) normalized
- c) denormalized
- d) summary

Q.7 _____ are numeric measurements or values that represent a specific business aspect or activity

Select one:

- a) Dimensions
- b) Schemas
- c) Facts
- d) Tables

Q.8 ROLAP stands for

- (a) Relational Online Transition Processing
- (b) Relative Online Transactional Processing
- (c) Relational Online Transactional Processing
- (d) Relational Online Transactional Program

Q.9 Data mining is?

- a) Time variant non-volatile collection of data
- b) The actual discovery phase of a knowledge
- c) The stage of selecting the right data
- d) None of these

Q.10 Data warehouse is which of the following?

- (a) Can be updated by end-users.
- (b) Contains numerous naming conventions and formats.
- (c) Organized around important subject areas.
- (d) Contains only current data.

Part B: Q.11 to Q.15 (4 questions *5 Marks =20 Marks) Attempt any four.

Short Notes

Q.11 What is DIKW? Explain with suitable example in healthcare?

Q.12 What are the data mining functionalities based on categories or group? Explain.

Q.13 What is decision tree? Explain its pros and cons?

Q.14 Calculate Support and Confidence for the below item set?

a) Shoes, Socks

b) Shoes, boot cream and brush

S.No.	TID	Items Sets
1	2202541	Shoes, Socks, Boot cream, Brush
2	2308598	Shoes, Socks
3	2509865	Boot cream, Brush
4	2734587	Socks, Boot cream, Brush
5	2908080	Shoes, Socks, Boot cream

Q.15 What are key steps involved in mining frequent itemset?

Part C: Q.16 to Q.20 (4 questions *10 Marks =40 Marks) Attempt any four.

Long Notes

Q.16 Explain four Data mining techniques?

Q.17 What is Datawarehouse design process? Explain the approaches used with Diagram?

Q.18 Differences between operational database systems and data warehouses.

Q.19 What is KDD and explain the Process and goals of KDD in datamining?

Q.20 What are the trends in data mining? Explain each of them.