

## III B. Tech I Semester Regular/Supplementary Examinations, October/November - 2017

**DATABASE MANAGEMENT SYSTEMS**

(Common to Computer Science Engineering and Information Technology)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (Part-A and Part-B)  
 2. Answering the question in **Part-A** is compulsory  
 3. Answer any **THREE** Questions from **Part-B**

**PART - A**

- |   |    |  |      |
|---|----|--|------|
| 1 | a) | Define Database Management Systems.                        | [4M] |
|   | b) | Why we need integrity constraints?                         | [3M] |
|   | c) | What are the major components used in E-R diagram design ? | [4M] |
|   | d) | Why do we need normalization?                              | [3M] |
|   | e) | Illustrate transaction properties.                         | [4M] |
|   | f) | Differentiate volatile and non volatile storage.           | [4M] |

**PART - B**

- |   |    |  |      |
|---|----|--|------|
| 2 | a) | What is Data Base Administrator? Discuss the functions of DBA.   | [8M] |
|   | b) | Explain DBMS applications.   | [8M] |
| 3 | a) | How do we represent null values? Discuss the importance of handling null values.   | [8M] |
|   | b) | Discuss in detail the operators SELECT, PROJECT and UNION with suitable examples.  | [8M] |
| 4 | a) | Explain about the following clauses with example queries.<br>(i) Group by<br>(ii) Order by<br>(iii) Aggregation functions. | [8M] |
|   | b) | How to maintain class hierarchies in ER-Diagrams? Explain with employee database.  | [8M] |
| 5 | a) | Explain the advantages of decomposition? Discuss the problems faced in decomposition.                                      | [8M] |
|   | b) | Explain the functional dependency with multi-valued dependencies with example.   | [8M] |
| 6 | a) | Discuss about conflict Serializability with an example.  | [8M] |
|   | b) | What is 2-phase locking protocol? Compare 2PL with Strict 2PL protocol.  | [8M] |
| 7 | a) | Write short notes on the following topics.<br>(i) Optical disk.<br>(ii) Magnetic tapes.                                    | [8M] |
|   | b) | Write about indexed sequential files with advantages and disadvantages.  | [8M] |

\*\*\*\*\*

# Mscit Question Paper

**Jeppesen**



### **Mscit Question Paper:**

Optimal Transport Statistics for Economics and Related Topics Nguyen Ngoc Thach,Vladik Kreinovich,Doan Thanh Ha,Nguyen Duc Trung,2023-10-31 This volume emphasizes techniques of optimal transport statistics but it also describes and uses other econometric techniques ranging from more traditional statistical techniques to more innovative ones such as quantiles in particular multidimensional quantiles maximum entropy approach and machine learning Applications range from general analysis of GDP growth stock market and consumer prices to analysis of specific sectors of economics construction credit and banking energy health labor textile tourism international trade to specific issues affecting economy such as bankruptcy effect of Covid 19 pandemic effect of pollution effect of gender cryptocurrencies and the existence of shadow economy Papers presented in this volume also cover data processing techniques with economic and financial application being the unifying theme This volume shows what has been achieved but even more important are remaining open problems We hope that this volume will inspire practitioners to learn how to apply state of the art techniques especially techniques of optimal transport statistics to economic and financial problems and inspire researchers to further improve the existing techniques and to come up with new techniques for studying economic and financial phenomena **Telecommunications**,1982-03 **Exam-Inst Question Bank** Jeppesen,2009-06-26 CSEC Geography Question Bank Tashika Yatemán-Gardener,2021-03-03 The CSEC Geography Question Bank was designed exclusively for students preparing for the CSEC Geography Examination The book contains potential examination questions that are intricately aligned with the CXC Geography syllabus It also provides detailed examination style question with similar weight for each topic listed in the syllabus Students will benefit from practicing these questions in their exam preparation

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