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MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL
A Constituent Institution of Manipal University

**I SEMESTER M.TECH. (CONSTRUCTION ENGINEERING AND
MANAGEMENT)**

END SEMESTER EXAMINATIONS, NOV/DEC 2016

**SUBJECT: MANAGEMENT INFORMATION SYSTEMS [CIE 5104]
REVISED CREDIT SYSTEM
(01/12/2016)**

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Missing data may be suitably assumed

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| 1A. | With an example explain Perfect and Imperfect Information. | 05 |
| 1B. | Explain with an example 'Filter' method of System Control. | 05 |
| 2A. | "Project work progress report of a construction project is Structured, Documented, Non-Recurring Information." Is it completely true? Substantiate your answer with example | 05 |
| 2B. | What is a Data Base Management System? With neat schematic diagram briefly explain process of DBMS. | 05 |
| 3A. | What are the characteristics of an 'Open System'? Is 'Law of Requisite Varieties' a suitable control method for such systems? Substantiate with relevant example. | 05 |
| 3B. | Explain Prototype approach to formulate Construction Information System | 05 |
| 4A. | Explain with example (i) Batch Validation and Batch Processing (ii) Online validation Batch Processing | 05 |
| 4B. | Explain Herbert Simone model of Decision making, with construction engineering example for each stage | 05 |
| 5. | Formulate the Transaction Processing Life Cycle for Construction Site Monitoring and Control. (A) Precisely list transaction data to be collected, Rules for recording data and data validation method for each data (B) processing algorithm and (C) Standard form of Transaction Document. | 10 |