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Instructions:

- Take a printout/photo copy of the Cover page
- Must write your **Name, Student ID, & Signature** on the cover sheet
- Use **ONLY A4 sized** plain/lined paper for the work.
- Show all steps and calculations in your work
- **Your work shall be checked for plagiarism**
- Take a scan/snap shot of all pages including cover page
- **Merge all pages in a Single acrobat pdf file**
- Submit the Assignment solution as **ONE SINGLE pdf File** less than 25 MB on LMS
- Submit Hardcopy of the assignment in the class as well
- Submit before due date and time on LMS
- **Email Solution NOT accepted**
- Not following instructions may result in marks deduction
- **Only hand written assignment will be accepted.**

Note: All question carry equal marks (5 * 3 = 15)

Q. No. 01

- Differentiate among a character, field, record, and data file. Describe validation techniques.
- Differentiate between file processing systems and the database approach.

Q. No. 02

- Describe uses of web databases, types of databases.
- Discuss functions common to most database management systems: data dictionary file retrieval and maintenance, data security, backup and recovery.

Q. No. 03

- Define system development, list the system development phases, and identify the guidelines for system development.
- What are the 3 data models of database? Write in detail.

Q. No. 04

- Discuss the purpose of the components required for successful communications and identify various sending and receiving devices.
- Differentiate among LANs, MANs, WANs, and PANs

Q. No. 05

- Differentiate between client/server and peer-to-peer networks
- Describe the various network communications standards and protocols