

2311000501010003

M.Sc. (Comp. Appli.) (Semester – I)

Examination December-2023

Version Control and Database Management

Seat No:

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[Time: Three Hours]

[Max. marks: 70 ]

Student's Signature
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**Q.1 Answer following: (Any Ten)**

**[20]**

(For MCQ, select appropriate answer only and for short questions, answer in one or two lines.)

[Each Question carry 2 marks]

- 1) **Which of the following is not a type of Version Control System (VCS)?**  
a) Git    b) Subversion    c) HTML    d) Mercurial
- 2) What is purpose of GIT and for used primarily?
- 3) What is an "Image" in Docker?
- 4) What is repository in contest of Version Control system?
- 5) What is the primary purpose of creating a GitHub repository?
- 6) **Which command should be used to create a new Git repository for a project?**  
a) git init    b) git commit    c) git clone    d) git add
- 7) What is meaning of "push" changes to a remote GitHub repository?
- 8) What does "git pull" do in Git?
- 9) What is container in Docker?
- 10) What is significance of Docker for software development and deployment?
- 11) What is the "Docker Daemon" and "Docker Client"?

12) Which step in the data warehouse process flow involves making copies of data to protect against data loss and for historical reference?

- a) Extracting and loading the data
- b) Cleaning and transforming the data
- c) Backup and archive the data
- d) Query management and directing to data sources

**Q.2 Answer Following: (Any Two)**

**[14]**

- (1) What is Git and GitHub? Explain file states: commit, modified and staged in GitHub.
- (2) How to push and pull data repository of GitHub?
- (3) Explain the concept of Git? How to configure Git after installing it?

**Q.3 Answer Following: (Any Two)**

**[14]**

- (1) What is Data Warehouse? Explain features and types of Data Warehouse.
- (2) Explain Data Mart.
- (3) What is OLTP and OLAP? Explain difference among them.

**Q.4 Answer Following: (Any Two)**

**[14]**

- (1) How Query management is done and directing to data source is done?
- (2) How to backup and archive the data?
- (3) Discuss Business Analysis Framework.

**Q.5 Write Short-note on Following: (Any Two)**

**[08]**

- (1) ETL
- (2) Virtual Data Warehouse
- (3) Data Cube