R.N.G.PATEL INSTITUTE OF TECHNOLOGY-RNGPIT

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IMSC-IT. SEMESTER-II, SEMESTER END EXAMINATION – SUMMER 2025

Subject Code: 1BS206	**Date: 16-05-2025**
Subject Name: VERSION CONTROL SYSTEM	
Time: 11:00AM to 12:00PM	**Total Marks: 25**

Instructions

1. It is **compulsory** for students to write **Enrolment No. /Seat No.** on the question paper.
2. The figures to the right of each question indicate full marks, make suitable assumptions wherever necessary.
3. The question paper consists of 25 questions, each carrying 1 mark. Attempt all questions. There is no negative marking.
4. All answers must be marked on the OMR sheet only.
5. BL - Bloom's Taxonomy Levels (R-Remember, U-Understanding, A –Application, N –Analyze, E – Evaluate, C -Create), CO - Course Outcomes.

Q. No.	Multiple-Choice Questions	Marks	BL	CO
1.	What does version control primarily help with?	**1**	**U**	**1**

    A. Encrypting files   **B.** Automating testing

    C. Tracking and managing changes in code   **D.** Enhancing program speed

2.	In a Centralized Version Control System, which component is essential for collaboration?	**1**	**R**	**1**

    A. Central Server   **B.** Remote Tracking Branch

    C. Personal Backup Drive   **D.** Local Repository

3.	Which of the following is a key advantage of Distributed Version Control Systems (DVCS)?	**1**	**R**	**1**

    A. Only one user can work at a time   **B.** Requires constant internet connection work at a time

    C. Full history is available locally   **D.** Changes are automatically deployed

4.	What type of version control allows multiple developers to work independently and later combine their changes?	**1**	**U**	**1**

    A. Manual File Backup   **B.** Local File Editing

    C. Centralized Version Control   **D.** Distributed Version Control

5. Which version control system uses the concept of changesets?   **1   U   1**

     A. CVS   **B.** Git

     C. Mercurial   **D.** Subversion

6. What does the tags directory in SVN represent?   **1   R   1**

     A. Snapshots of a project at a given   **B.** Log files

         time

     C. A record of user   **D.** Active development branches

7. Which of the following systems does NOT support branching and merging?   **1   R   1**

     A. Microsoft Excel   **B.** Git

     C. CVS   **D.** SVN

8. What is the main purpose of a Version Control System (VCS)?   **1   R   1**

     A. To speed up execution of the   **B.** To keep track of changes in

         program   source code

     C. To use AI   **D.** To improve team work

9. In version control, what does a "commit" represent?   **1   U   1**

     A. A snapshot of changes made to a   **B.** A request for code saving

         repository

     C. A temporary save of a file   **D.** A deletion of a file

10. Which of the following is a centralized version control system?   **1   U   2**

     A. Subversion (SVN)   **B.** Linux

     C. Mercurial   **D.** Git

11. What does SVN stand for?   **1   R   2**

     A. Source Version Number   **B.** System Version Notifier

     C. Software Version Network   **D.** Subversion

12. What command applies the most recent stash?   **1   R   2**

     A. git stash pop   **B.** git stash recover

     C. git stash latest   **D.** git stash apply

13. What command initializes a new Git repository?   **1   A   2**

     A. git init   **B.** git start

     C. git new   **D.** git history

14. What is the purpose of git rebase?   **1   R   2**

     A. To rewrite commit history   **B.** To delete commits

     C. To create a branch   **D.** To undo a merge

15. What command lists all available tags?   **1   A   2**

     A. git tags   **B.** git list-tags

     C. git tag-1   **D.** git show-tags

16. In SVN, what is the central repository called? **1 R 2**

    A. Staging Area   **B.** Workspace

    C. Trunk   **D.** Merge Zone

17. Which command is used to get the latest changes from the SVN repository **1 U 2**

    A. svn diff   **B.** svn commit

    C. svn update   **D.** svn status

18. What does git push do? **1 U 3**

    A. Downloads changes from a remote repository   **B.** Uploads local changes to a remote repository

    C. Deletes a repository   **D.** Creates a new branch

19. How do you clone a remote repository? **1 A 3**

    A. git duplicate   **B.** git copy

    C. git clone   **D.** git fork

20. Which command lists all branches? **1 A 3**

    A. git list   **B.** git show-branches

    C. git branch   **D.** git all-branches

21. What is the default branch in a Git repository? **1 A 3**

    A. feature   **B.** master or main

    C. develop   **D.** release

22. How do you merge another branch into the current branch? **1 A 3**

    A. git join <branch-name>   **B.** git pull --merge <branch-name>

    C. git combine <branch-name>   **D.** git merge<branch-name>

23. What is GitHub? **1 U 3**

    A. A programmer hub   **B.** A programming language

    C. A version of Git   **D.** A remote repository hosting service

24. What is the benefit of using Git hooks? **1 R 3**

    A. Prevents Merge Conflicts   **B.** Automates actions before or after commits

    C. Rewrites Commit History   **D.** Hides Commit Messages

25. Which is a key benefit of pull requests? **1 R 3**

    A. Automated Deployment   **B.** Peer Code Review

    C. Preventing Commits   **D.** Resetting Changes

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