PG-DITISS – Session 23, 24 & 25

Bash Automation, Logging, Monitoring & Case Study – 40 MCQs

Q1. Task automation means:

A. Doing work manually
B. Doing repeated work automatically
C. Shutting down system
D. Deleting files

Q2. A bash script is:

A. A binary program
B. A text file with Linux commands
C. A kernel module
D. A hardware driver

Q3. Bash scripts are mainly used for:

A. Gaming
B. Automation
C. Graphics design
D. Hardware testing

Q4. Which task can be automated using bash?

A. Backup
B. Log cleanup
C. Service start/stop
D. All of the above

Q5. A security patch is used to:

A. Add new hardware
B. Fix security issues
C. Delete users
D. Format disk

Q6. Security patches help to:

A. Slow down system
B. Protect from attacks
C. Increase disk usage
D. Remove logs

Q7. Logging means:

A. Installing software
B. Recording system activities
C. Removing files
D. Creating users

Q8. Monitoring is used to:

A. Install OS
B. Check system health

C. Format disk
D. Create backups

Q9. Case study is:

A. A theory question
B. A real-life problem and solution
C. A command
D. A log file

Q10. Bash scripts save:

A. Time
B. Manual effort
C. Errors
D. Both A and B

Q11. Automation using scripts reduces:

A. Disk size
B. Manual work
C. CPU speed
D. RAM size

Q12. Which task is commonly automated?

A. User creation
B. Backup
C. Log rotation
D. All of the above

Q13. Security patches should be applied:

A. Rarely
B. Regularly
C. Only once
D. Never

Q14. Logging helps administrators to:

A. Monitor activities
B. Troubleshoot issues
C. Detect security problems
D. All of the above

Q15. Monitoring scripts can check:

A. CPU usage
B. Disk usage
C. Memory usage
D. All of the above

Q16. Log files are usually stored in:

A. /bin
B. /var/log
C. /boot
D. /home

Q17. Monitoring alerts are generated when:

A. System idle
B. Threshold crossed
C. Script stops
D. User logs out

Q18. Automation scripts are scheduled using:

A. cron
B. ls
C. ps
D. grep

Q19. Logging using scripts helps in:

A. Performance analysis
B. Security auditing
C. Troubleshooting
D. All of the above

Q20. A case study mainly tests:

A. Memory
B. Practical understanding
C. Typing speed
D. Hardware knowledge

Q21. Bash scripts should have:

A. Correct permissions
B. Execution rights
C. Proper logic
D. All of the above

Q22. Monitoring disk space prevents:

A. CPU overload
B. Disk full errors
C. Network failure
D. Power failure

Q23. Which feature is used to take decisions?

A. Loop
B. Variable
C. Conditional statement
D. Comment

Q24. Automation scripts improve:

A. Reliability
B. Consistency
C. Efficiency
D. All of the above

Q25. Security patches are provided by:

A. Users
B. Software vendors
C. Hackers
D. Network cables

Q26. Failure to apply patches leads to:

A. Better security
B. System vulnerability
C. Faster performance
D. Less updates

Q27. Logging and monitoring help in:

A. Proactive management
B. Shutdown
C. Formatting
D. User deletion

Q28. Automation scripts should be tested to:

A. Increase errors
B. Avoid failures
C. Delete logs
D. Slow system

Q29. Log rotation is used to:

A. Delete logs
B. Manage log size
C. Encrypt logs
D. Share logs

Q30. Monitoring scripts often use:

A. Threshold condition
B. User login
C. File empty
D. Script start

Q31. Case study implementation includes:

A. Problem identification
B. Solution design
C. Script implementation
D. All of the above

Q32. Automation reduces errors because:

A. Scripts not tired
B. Repeatable
C. Logical
D. All of the above

Q33. Logging scripts should be scheduled:

A. Once
B. Regularly
C. Never
D. Randomly

Q34. Monitoring alerts help in:

A. Ignoring problems
B. Quick response
C. Deleting data

D. Stopping services

Q35. Security patches should be applied before:

A. System attack
B. System install
C. Boot
D. Shutdown

Q36. Case studies are important because:

A. Theoretical
B. Real-world application
C. Replace labs
D. Optional

Q37. Automation improves consistency by:

A. Same steps
B. Random execution
C. Manual editing
D. Human input

Q38. Monitoring scripts detect:

A. Hardware failure
B. Performance issues
C. Security issues
D. All of the above

Q39. Logging without monitoring is:

A. Useless
B. Less effective
C. Better
D. Not required

Q40. Main goal of Sessions 23–25 is:

A. Gaming
B. Automated secure management
C. Graphics
D. Hardware repair

Answer Key

Q1—B, Q2—B, Q3—B, Q4—D, Q5—B, Q6—B, Q7—B, Q8—B, Q9—B, Q10—D, Q11—B, Q12—D, Q13—B, Q14—D, Q15—D, Q16—B, Q17—B, Q18—A, Q19—D, Q20—B, Q21—D, Q22—B, Q23—C, Q24—D, Q25—B, Q26—B, Q27—A, Q28—B, Q29—B, Q30—A, Q31—D, Q32—D, Q33—B, Q34—B, Q35—A, Q36—B, Q37—A, Q38—D, Q39—B, Q40—B