

DURATION: - 2½ hrs

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MARKS:- 75

Note: - (1) All questions are compulsory.
 (2) All questions carry equal marks.
 (3) Figures to the right indicates full marks

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| Q.1 Answer the following questions (Any 4) | 20M |
| a) Write a short note on history of Linux operating system. | CO1-U |
| b) Explain Linux architecture. | CO1-U |
| c) Explain “cat” command in brief. | CO2-U |
| d) Explain Linux variables. | CO3-U |
| e) How to copy and delete files in Linux command/shell? | CO2-A |
| f) Explain types of files in Linux. | CO2-U |
| Q.2 Answer the following questions (Any 4) | 20M |
| a) Explain Linux security. | CO4-U |
| b) Write any five privileges of administrator. | CO4-U |
| c) Explain “sudo” command in detail. | CO3-U |
| d) Explain the concept of encryption and authentication. | CO4-U |
| e) Explain SSH and it’s working in detail. | CO4-U |
| f) Write a short note on TCP/IP model. | CO4-R |
| Q.3 Answer the following questions (Any 4) | 20M |
| a) Explain creating a script file. | CO5-U |
| b) Explain with example working of multiple commands. | CO5-U |
| c) What is use of “While” command? Explain with example. | CO5-R |
| d) Explain “case” command in detail. | CO5-U |
| e) Explain DNS and ftp. | CO6-U |
| f) What is telnet? Explain its two types of login. | CO6-E |
| Q.4 Answer the following questions (Any 5) | 15M |
| a) Explain naming the files. | CO1-U |
| b) Explain “chmod” command. | CO2-U |
| c) Explain backtick in Linux. | CO3-U |
| d) Write a shell script to print series of numbers from 1 to 10. | CO5-A |
| e) Explain any two commands used for job controlling in Linux. | CO6-U |
| f) What are the rules for having password in Linux. | CO4-U |
