

This question paper contains 2 printed pages.

Your Roll No.

Sl. No. of Ques. Paper: 148

I

Unique Paper Code : 42343501

Name of Paper : SEC-3 : System Administration
and Maintenance

Name of Course : B.Sc. (Program) Mathematical
Science : SEC

Semester : V

Duration : 2 hours

Maximum Marks : 25

*(Write your Roll No. on the top immediately
on receipt of this question paper.)*

*Question No. 1 is compulsory. Attempt any
three questions from Q. Nos. 2 to Q. 6.*

1. (a) List any two services provided by an Operating System. Explain how each provides convenience to the user. 2
- (b) Explain three different uses of cat command. 3
- (c) What is the difference between the commands cd. and cd.. ? Explain with suitable examples. 2
- (d) List any two control panel tools in Windows OS. 1
- (e) What is the function of Synaptic Package Manager? 1
- (f) What is the function of ipconfig command? 1

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2. (a) Compare the features of Windows and Linux OS. 3
- (b) Explain all components of the output given by
1S-1 command. 2
3. (a) Compare features of Windows7 and Windows XP
Operating System. 3
- (b) Draw and explain the architecture of Linux
Operating System. 2
4. List the function of each of the following commands:
- (a) kill
- (b) echo
- (d) ping
- (d) traceroute
- (e) netstat 5
5. (a) What is the difference between Kernel space and
User space? Explain the dual mode operation of
an Operating System. 3
- (b) Differentiate between Homegroup network type
and Domain network type. 2
6. (a) Explain any *two* file systems supported in
Windows 7. 3
- (b) What is an Active Directory? Explain the purpose
it serves. 2