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**[ 17–HRGPKAC–M5S ]**

**MCA 5th Semester Exam., 2017**

# LINUX SYSTEM ADMINISTRATION

[ MCA(S5)20 ]

**( Theory )**

*Full Marks* : 50

*Time* : 2 hours

*The figures in the margin indicate full marks for the questions*

**1.** Answer any *three* questions from the following : 2×3=6

*(a)* Define proxy server.

*(b)* Show the uses of 'chmod' and 'grep' using examples.

*(c)* Define runlevel. How many runlevels exist in LINUX?

*(d)* Show creation of a shell variable using example.

**2.** Answer any *three* questions from the following : 4×3=12

*(a)* Describe the concept of remote login.

*(b)* Differentiate between LINUX and UNIX.

*(c)* How does DHCP work?

*(d)* Show the uses of input and output redirection operators using examples.

**3.** Answer any *two* questions from the following : 6×2=12

*(a)* Give the steps to create an application launcher manually in GNOME. 6

*(b)* Describe the different ways of shutting down a LINUX system using shutdown. How can we reboot the system? 4+2=6

*(c)* Write a shell script to find the factorial of a number. 6

**4.** Answer any *two* questions from the following : 10×2=20

*(a)* Describe the role of system administrator. Also describe the documents that a good administrator should document. 7+3=10

*(b)* Explain the functions of kernel in LINUX operating system. 10

*(c)* Describe how a simple LAN can be installed, configured and managed in LINUX. 10

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