No. of Printed Pages—2

650 (LSA)

[18–HRGPKAC–MCA5S]

MCA 5th Semester Exam., 2018

LINUX SYSTEM ADMIN

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 the term 'Linux kernel'.

(b) What is 'init'?

(c) What is the use of 'wc' command?

(d) How are scripts executed in Linux?

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

(a) "Linux is scalable." Explain the statement.

(b) Give two advantages and disadvantages of shell script.

(c) What is the purpose of the following commands?

(i) grep

(ii) Ls-a

(iii) rm-r

(iv) rmdir

(d) What is the use of pipeline in shell programming?

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

(a) Write a shell script to display factor of a number.

(b) Write a shell script to find the sum of even numbers from 1 to *N*.

(c) Explain the difference between 'for' statement and 'while' statement in shell programming in Linux using examples.

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

(a) Describe how a system administrator can check and monitor system performance.

(b) Describe the various filters available in Linux systems with suitable examples.

(c) Write short notes on any *two* of the following : 5×2=10

(i) Remote login

(ii) Run levels

(iii) File security and permission in Linux

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