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SEAT No. :

PE12980

[Total No. of Pages : 2

[6502]-1001

F.Y.B.Sc. (Cyber Security)

CYS 101MJ : FUNDAMENTALS OF LINUX ADMINISTRATION

(2024 Pattern) (Semester-I)

Time : 2 Hours]

[Max. Marks : 30

Instructions to the candidates:

- 1) All questions are compulsory.*
- 2) Figures to the right indicate full marks.*

Q1) Attempt any SIX of the following:

[6×1=6]

- a) Which command is used to rename a file?
- b) What is the shortcut to clear the terminal screen?
- c) Which file contains the list of DNS nameservers?
- d) What does the df command display?
- e) Name the command used to display the last 10 lines of a file.
- f) What is the command to find the kernel version?
- g) Which command is used to switch to another user account?
- h) What is the PID of the 'init' or 'systemd' process?

Q2) Attempt any FOUR of the following:

[4×2=8]

- a) What is "Piping" (|) in Linux?
- b) Explain the use of the tar command.
- c) What is the difference between kill and kill -9?
- d) What is a "Daemon" in Linux?
- e) What is the purpose of the /boot directory?

P.T.O.

Q3) Attempt any TWO of the following:

[2×4=8]

- a) Explain the concept of PAM (Pluggable Authentication Modules) in user authentication.
- b) Describe how to troubleshoot a network connection issue in Linux.
- c) What is SE Linux (Security-Enhanced Linux)? How does it improve system security?

Q4) Attempt any TWO of the following:

[2×4=8]

- a) Explain the Kernel upgrade process and why rebooting is often necessary after an upgrade.
- b) Describe how to automate a backup task using a Shell Script and Cron.
- c) What are Docker containers? Explain their benefits in application deployment.



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SEAT No. :

PE12981

[Total No. of Pages : 2

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F.Y. B.Sc. (Cyber Security)

CYS 102 MJ : FOUNDATION OF C PROGRAMMING

(NEP 2024 Pattern) (Semester - I)

Time : 2 Hours]

[Max. Marks : 30

Instructions to the candidates:

- 1) All questions are compulsory.*
- 2) Figures to the right indicate full marks.*

Q1) Attempt any six of the following :

[6×1=6]

- a) Who developed the C Language?
- b) What is use of break statement?
- c) Define the recursive function?
- d) What is string?
- e) Which keyword is used to define structure?
- f) Name any two file operation function.
- g) What is the size of int data type?
- h) Define an Array.

Q2) Attempt any four of the following :

[4×2=8]

- a) List any four features of C Language.
- b) Differentiate between while & do-while loop.
- c) What are the different opening mode of file.
- d) Write the syntax of statement.
- e) Explain structure of C Program.

P.T.O.

Q3) Attempt any two of the following :

[2×4=8]

- a) Explain One – Dimensional array with example.
- b) Write a C Program to check whether given number is prime or not.
- c) Explain storage classes in C.

Q4) Attempt any two of the following :

[2×4=8]

- a) Differentiate between Structure & Union.
- b) Write a C Program to find transpose of a matrix.
- c) Write a C Program to check year is leap or not.

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SEAT No. :

PE12982

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F.Y.B.Sc. (Cyber Security)

CYS 103MJ : INFORMATION TECHNOLOGY

(2024 Pattern) (Semester-I)

Time : 2 Hours]

[Max. Marks : 30

Instructions to the candidates:

- 1) All questions are compulsory.*
- 2) Figures to the right indicate full marks.*

Q1) Attempt any SIX of the following:

[6×1=6]

- a) Define computer.
- b) What is LAN?
- c) What is compiler?
- d) Give the full form of EPROM.
- e) What is cache memory?
- f) Define - 'Plotter'.
- g) Define- Operating System.
- h) What is Information Technology?

Q2) Attempt any FOUR of the following:

[4×2=8]

- a) Differentiate between Input and Output devices with examples.
- b) Perform the following binary addition and subtraction.
 - i) $1010 + 1100$
 - ii) $1010 - 1100$
- c) Write advantages and disadvantages of computer.
- d) Write a short note on Batch file.
- e) Differentiate between primary and secondary memory.

P.T.O.

Q3) Attempt any TWO of the following:

[2×4=8]

- a) Draw and Explain the block diagram of a computer.
- b) What is an algorithm? Write an algorithm to check if a number is even or odd.
- c) What are functions of operating system?

Q4) Attempt any TWO of the following:

[2×4=8]

- a) Explain the client-server network architecture with the suitable diagram.
- b) What is flowchart ? Draw a flowchart to find the largest of three numbers.
- c) Explain Internal and External commands in DOS with suitable example.

