N22-2110220241 A

Reg.No………….…..............
Signature. ....

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/ COMMERCIAL PRACTICE – NOVEMBER - 2022

FUNDAMENTALS OF SYSTEM ADMINISTRATION

(Maximum Marks : 75)   [Time : 3 hours]

PART–A

I. Answer **all** the following questions in one word or one sentence. Each question carries 1 mark

(9x1=9 marks)

		Module Outcome	Cognitive level
1	Media player is an example of------------	M1.01	R
2	Recall two usages of operating system.	M1.02	R
3	Define file.	M2.08	R
4	PCB stands for-----------	M2.02	R
5	Define global variable.	M3.08	R
6	Show the use of chmod command.	M3.02	U
7	Which command show the current run level of the system?	M3.03	R
8	Show the syntax for simple if.	M4.02	U
9	Label any two basic operators in shell scripting.	M4.01	R

PART - B

II. Answer **any Eight** questions from the following. Each question carries 3 marks.

(8x3=24marks)

		Module Outcome	Cognitive level
1	Recall system software with an example.	M1.01	R
2	Outline the working of BOS.	M1.04	U
3	Recall the basics of I/O system.	M1.04	R
4	Demonstrate 'rwx' in chmod command.	M3.02	U
5	Explain the concept virtual memory.	M2.06	U
6	Match the use of 'mkdir' and 'rmdir' command.	M3.01	R
7	Define shell prompt.	M3.06	R
8	Compare the Relational Operators used in shell programming.	M4.01	U
9	Recall any two Bash supporting arithmetic operators in shell scripting.	M4.01	R
10	Show the syntax of for loop in shell scripting.	M4.03	R

PART - C

Answer **all** questions from the following. Each question carries 7 marks.

(6x7=42marks)

		Module Outcome	Cognitive level
III	Explain program execution.	M1.05	U
	OR		
IV	Compare the following operating system. (a) Multitasking OS.　　　(b) Multiprogrammed OS.	M1.04	U
V	Summarize the concept of paging with a neat sketch.	M2.04	U
	OR		
VI	Explain segmentation.	M2.05	U
VII	Classify different file access methods.	M2.09	U
	OR		
VIII	Explain process states with a neat sketch.	M2.02	U
IX	Explain Shell scripting and advantages of shell scripting.	M3.07	U
	OR		
X	Summarize different general-purpose commands.	M3.03	U
XI	Summarize Linux environment variable.	M3.08	U
	OR		
XII	Explain shell with a diagram.	M3.04	U
XIII	Show loop controls work in shell scripting with an example.	M4.04	U
	OR		
XIV	Demonstrate shell program to find the factorial of a number using loop concept.	M4.03	U

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