

**DIPLMA EXAMINATION IN ENGINEERING/TECHNOLOGY/  
MANAGEMENT/COMMERCIAL PRACTICE, NOVEMBER - 2024**

**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 ‘one’ marks.**

**( 9 x 1 = 9 Marks)**

Module Outcome Cognitive level

1	'Open office writer' is an example of.....software.	M1.01	R
2	Which software controls the execution of all programs in a computer?	M1.02	R
3	Define Process.	M2.01	R
4	List any two memory management needs.	M2.03	R
5	Find the use of segmentation concept in OS.	M2.05	R
6	Show the use of ‘cat’ command.	M3.02	R
7	Which command shows the current run level of the system?	M3.03	R
8	Show how to print a message in shell script.	M4.01	R
9	Label any two loop controls in shell scripting.	M4.04	R

**PART - B**

**II. Answer any eight questions from the following. Each question carries ‘Three’ marks.**

**( 8 x 3 = 24 Marks)**

Module Outcome Cognitive level

1	What is an application software and give an example?	M1.01	R
2	Tell the working of 'Multitasking OS'.	M1.04	R
3	What is error detection?	M1.09	R
4	Label the process states in OS.	M2.02	R
5	Explain the benefits of virtual memory.	M2.06	U
6	List any three uses of 'who' command.	M3.03	R
7	Recall 'mkdir' and 'rmdir' command and its syntax.	M3.01	R
8	What are the Relational Operators used in shell programming?	M4.01	R
9	Write the syntax of ‘if-else’ statement in shell scripting.	M4.02	R
10	Write the syntax of ‘while’ loop in shell scripting.	M4.03	R

**PART - C**

Answer all the questions from the following. Each question carries 'seven' marks.

(6 x 7 = 42 Marks)

Module Outcome Cognitive level

III.	Explain operating system and its usages. <b>OR</b>	M1.02	U
IV.	Compare Batch OS and Time-sharing OS.	M1.04	U
V.	Summarize the concept of paging with a neat sketch. <b>OR</b>	M2.04	U
VI.	Explain different file access methods.	M2.09	U
VII.	List any seven file operations <b>OR</b>	M2.08	R
VIII.	Explain Process Control Block with a diagram.	M2.02	U
IX.	Summarize any three directory management commands and its needs. <b>OR</b>	M3.01	U
X.	Summarize any three file management commands and its needs.	M3.02	U
XI.	Explain shell scripting and list any three advantages of shell scripting. <b>OR</b>	M3.07	U
XII.	Explain Linux Kernel with a diagram.	M3.05	U
XIII.	Show how decision-making works in shell scripting with an example. <b>OR</b>	M4.02	U
XIV.	Explain the concept of 'while' loop in shell script with an example.	M4.03	U

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