

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)**

**CLASS: BCA
BRANCH: BCA**

**SEMESTER : I
SESSION : MO/2024**

SUBJECT: CN105 BASICS OF OPERATING SYSTEMS

TIME: 3 Hours

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
-

		CO	BL
Q.1(a)	What is an Operating System? Explain Evolution of Operating Systems.	[5]	1 I,II
Q.1(b)	Explain the structure of operating system.	[5]	1 II
Q.2(a)	What is Process? Give the difference between a process and a program.	[5]	2 I,IV
Q.2(b)	Explain in details the following CPU Scheduling Algorithms: 1. FCFS 2. Round Robin.	[5]	2 II
Q.3(a)	Define the term Deadlock. Discuss Deadlock Prevention.	[5]	3 II
Q.3(b)	Explain in details about Deadlock Avoidance.	[5]	3 II
Q.4(a)	Differentiate between Primary Memory and Secondary Memory.	[5]	4 IV
Q.4(b)	Write a note on Paging Scheme of Memory Management.	[5]	4 I
Q.5(a)	What do you mean by File? Explain the different types of Files.	[5]	5 I,II
Q.5(b)	Define Directory Structure. Discuss different types of Directory Structures.	[5]	5 I,II

.....09/12/2024.....M