Roll	No.		
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Total No. of Questions: 11

[ Total No. of Printed Pages : 3

# **BPP-1110**

# M.Sc. (Previous) Examination, 2022 INFORMATION TECHNOLOGY

MIT-103

## (Operating System)

Time: 3 Hours [ Maximum Marks: 50

Section-A (Marks:  $2 \times 10 = 20$ )

Note: Answer all ten questions (Answer limit 50 words). Each question carries2 marks.

Section–B (Marks :  $3 \times 5 = 15$ )

Note: Answer all five questions. Each question has internal choice (Answer limit200 words). Each question carries 3 marks.

Section–C (Marks:  $5 \times 3 = 15$ )

**Note**: Answer any *three* questions out of five (Answer limit **500** words). Each question carries **5** marks.

#### Section-A

- 1. (i) What is Operating System?
  - (ii) What is Process Control Block?

BR-435 ( 1 ) BPP-1110 P.T.O.

	(iii)	What is Throughput ?			
	(iv)	What is Turnaround time ?			
	(v)	What is Semaphore ?			
	(vi)	Write the condition of Deadlock	ζ.		
	(vii)	What is Unix ?			
	(viii)	What is kill process in Unix?			
	(ix)	What is system variable in Unix	?		
	(x)	What is Shell Script?			
		Secti	on–B		
2.	What	t is Real Time System? Explain the	he real time system with exam	ıple.	
		C	Or		
	What exam	t is Multiprogramming Batch Manple.	ode Operating System ? Exp	lain with	
3.	3. Explain the SJF and SRTM in CPU scheduling.				
		C	Or		
	Expla	ain the Demand Paging.			
4.	What	t is bounded buffer problem? Exp	plain.		
		C	Or		
	What	t is Reader and Writer Problem?	Explain.		
5.	Expla	ain the types of Shell.			
		C	Or		
	Expla	ain the inode and block storage of	file.		
6.	Write	e a program in Unix to print factor	orial number.		
		C	Or		
	Write	e a program in Unix to print Fibo	onacci series.		
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### Section-C

- 7. Explain the structure of Operating System.
- 8. Explain the different types of page replacement policies and algorithm with example.
- 9. What is Deadlock? Explain detection and recovery from deadlock.
- 10. Explain the Unix File System.
- 11. Explain the different types of Loop with example in Unix.