Sup Course: B. Tech. Branch: Electronics and Science Engineering Subject Code & Name: I Max Marks: 60 Instructions to the Studen	MBEDKAR TECHNOLOGICAL UND oplementary Examination Summer 20 I Computer Engineering / Electronics BTESC304_EC Computer Architectur Date: 06/07/2024	Semester:III and Computer	
Course: B. Tech. Branch: Electronics and Science Engineering Subject Code & Name: I Max Marks: 60 Instructions to the Studen	Computer Engineering / Electronics STESC304_EC Computer Architectur	Semester:III and Computer re &Operating System	
Branch: Electronics and Science Engineering Subject Code & Name: I Max Marks: 60 Instructions to the Studen	BTESC304_EC Computer Architectur	and Computer re &Operating System	
Science Engineering Subject Code & Name: I Max Marks: 60 Instructions to the Studen	BTESC304_EC Computer Architectur	re &Operating System	
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Instructions to the Studer	Date: 06/07/2024	Duration: 3 Hr.	1
2. The level of question which the question3. Use of non-progra	re compulsory. on/expected answer as per OBE or the C is based is mentioned in () in front of to mmable scientific calculators is allowed	he question. l.	
	4	(Level/CO)	Marks
Solve Any Two of the fol	lowing.		12
Give the comparison bet architecture.	ween computer organization and com	nputer 1/CO1	6
Explain different types o	f addressing modes.	2/CO1	6
Explain RISC and CISC	architecture.	3/CO1	6
	40		
Solve Any Two of the fol	lowing.		12
What are the different is memory works?	sues related in cache memory? How d	loes cache 2/CO2	6
State the characteristics	of Magnetic disk, optical memory and	d RAID. 3/CO2	6
Explain Principle of open support for paging,	ration of paging and Page allocation I	Hardware 4/CO2	6
	10		
Solve Any Two of the fol	lowing.		12
List the applications of N	Aicroprogramming.	1/CO3	6
-		as 3/CO3	6
Explain programmed I/O	O module and Interrupt driven I/O.	4/CO3	6
Solve Any Two of the fol	lowing.		12
<u> </u>		1/CO1	6
	2. The level of question which the question 3. Use of non-progra 4. Assume suitable de Solve Any Two of the fol Give the comparison bet architecture. Explain different types of Explain RISC and CISC Solve Any Two of the fol What are the different is memory works? State the characteristics Explain Principle of opensupport for paging, Solve Any Two of the fol List the applications of Memory works an assembly lipipelining. Discuss the new Explain programmed I/C Solve Any Two of the fol What is operating system what is operating system where the programmed I/C Solve Any Two of the fol What is operating system where the programmed I/C Solve Any Two of the fol What is operating system where the programmed I/C Solve Any Two of the fol What is operating system where the programmed I/C Solve Any Two of the fol What is operating system where the programmed I/C Solve Any Two of the fol What is operating system where the programmed I/C Solve Any Two of the fol What is operating system where the programmed I/C Solve Any Two of the fol What is operating system where the programmed I/C Solve Any Two of the fol What is operating system where the programmed I/C Solve Any Two of the fol What is operating system where the programmed I/C Solve Any Two of the fol What is operating system where the programmed I/C Solve Any Two of the fol What is operating system where the programmed I/C Solve Any Two of the fol What is operating system where the programmed I/C Solve Any Two of the fol What is operating system where the programmed I/C Solve Any Two of the fol What is operating system where the programmed I/C Solve Any Two of the fol What is operating system where the programmed I/C Solve Any Two of the fol What I/C Solve Any Two o	which the question is based is mentioned in () in front of the 3. Use of non-programmable scientific calculators is allowed 4. Assume suitable data wherever necessary and mention it composed to the following. Give the comparison between computer organization and comparchitecture. Explain different types of addressing modes. Explain RISC and CISC architecture. Solve Any Two of the following. What are the different issues related in cache memory? How of the characteristics of Magnetic disk, optical memory and explain Principle of operation of paging and Page allocation I support for paging, Solve Any Two of the following. List the applications of Microprogramming. Why does an assembly line in a manufacturing plant refer to a pipelining. Discuss the need of instruction pipe-lining. Explain programmed I/O module and Interrupt driven I/O. Solve Any Two of the following. What is operating system? Give objectives and functions of	2. The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in () in front of the question. 3. Use of non-programmable scientific calculators is allowed. 4. Assume suitable data wherever necessary and mention it clearly. (Level/CO) Solve Any Two of the following. Give the comparison between computer organization and computer architecture. Explain different types of addressing modes. Explain RISC and CISC architecture. Solve Any Two of the following. What are the different issues related in cache memory? How does cache memory works? State the characteristics of Magnetic disk, optical memory and RAID. 3/CO2 Explain Principle of operation of paging and Page allocation Hardware support for paging, Solve Any Two of the following. List the applications of Microprogramming. Why does an assembly line in a manufacturing plant refer to as pipelining. Discuss the need of instruction pipe-lining. Explain programmed I/O module and Interrupt driven I/O. 4/CO3 Solve Any Two of the following. What is operating system? Give objectives and functions of 1/CO1

49.

B)	Explain Multiple-Processor Scheduling in detail.	3/CO4	6
C)	What are the advantages of Threads over process. Explain the types of	4/CO4	6
	Threads.		
Q. 5	Solve Any Two of the following.		12
A)	What is the purpose of using semaphores in synchronization?	4/CO5	6
B)	What is the key factor in preventing deadlocks in a system?	5/CO5	6
C)	What are the different Methods for handling Deadlocks?	2/CO5	6
	*** End ***		