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Reg. No.:	110
Question Paper Cod	le:91394 3
B.E./B.Tech. DEGREE EXAMINATIONS, NO	VEMBER/DECEMBER 2019
Third/Fifth/Sixth Sem Computer Science and En	
CS 6303 – COMPUTER ARCI	
(Common to Electronics and Communication Instrumentation Engineering/Instrumentation as	
and Automation Engineering/Inform (Regulations 2013)	Co.
(Also Common to PTCS 6303 - Computer Arc	hitecture for B.E. Part-Time
 Computer Science and Engineering – Secon Electronics and Communication Engineer 	
Time: Three Hours	Maximum: 100 Marks
Answer ALL question	
PART – A	(10×2=20 Marks)
1. List the operating systems functions.	
2. Define performance.	
3. Tell the principle of alignment restriction.	
4. Identify the MIPS fields.	
5. List the MIPS addressing modes.	
6. Define Data Hazards.	
6. Define Data Hazards.7. Identify the MIPS instruction classification.	
6. Define Data Hazards.	
6. Define Data Hazards.7. Identify the MIPS instruction classification.	
6. Define Data Hazards.7. Identify the MIPS instruction classification.8. Draw the Program Execution Order.	

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91394 PART - B (5×13=65 Marks) 11. a) Describe the components of the computer with diagram. (OR) Explain the various types of addressing modes with example. 12. a) Illustrate about the Signed and Unsigned Numbers. (OR) b) Convert Binary to Hexadecimal and back analyze the design principles. 13. a) Analyze the working principles of multiplication operations. b) What are the various types of data hazards? Explain with example. 14. a) Illustrate about the four states of the simple controller. (OR) b) Describe about the instruction level parallelism. 15. a) Explain about DMA and Interrupt with necessary diagram. b) Explain how Cache performance can be measured and improved. PART - C (1×15=15 Marks) 16. a) Analyze the process of reordering the code to avoid pipeline stalls. b) Analyze the compilation of floating-point C procedure with the example of Two-Dimensional Matrices.