	Computer Organization	
Tin	ne: 3 brs. Max.	Marks: 100
No	ste: Answer any FIVE full questions, selecting atleast TWO questions from	each part
1	With a near diagram, explain the different processor registers, List and explain the technological features and devices improvement made du generations of computers. What are the features that affect the Performance? Explain any four.	(68 Marki ring differer (68 Marki (64 Marki
2	What is an addressing mode? Explain any four addressing modes, with an example. Explain shift and rotate operations with example.	ople for each
	c. Explain Big - endust and Little - endian method of byte addressing with in exa	
3	Define Exceptions. Explain two kinds of exceptions. Define has arbitanion. Explain in detail any one approach of has arbitation. Draw and explain the general 8 bit parallel processing.	(04 Mark) (08 Mark) (08 Mark)
4	Explain the following with respect to USB: i) USB Architecture ii) USB Protectols: USB Protectols: Briefly discuss the main phases involved in the operation of SCSI bus. Explain distributed Bus arbitrations.	B Addressin 199 Marki 196 Marki 195 Marki
5	Define i) Memory Latency ii) Memory bandwidth: iii) Hit – rate Penalty. Explain the different cache mapping functions. Explain any one feature of memory design that lends to improved performance.	(94 Marks (10 Marks
6	With a neat diagram, explain the virtual memory organization. Design a logic circuit to perform addition / subtraction of two 'n' bit numbers 3	(98 Marks and Y. (94 Marks
	 Explain Booth Algorithm. Apply Booth Algorithm to multiply the sign +13 and -6. 	ied number (08 Marks
7	Explain the different arithmetic operations on floating point numbers. Perform division of number 8 by 3 (8 + 3) using the restoring division algorithm Explain the process of fetching a word from memory along with a timing diagram.	
8	Briefly explain the structure of General Purpose Multiprocessor. List different types of Networks: Explain any four. Give a brief description on performance consideration with an example.	(88 Marks (88 Marks (84 Marks