AI-1346 AI-1540 (018) B.C.A. PART-III (THREE) Examination MAR.-APR. 2021 Compulsory/Optional Group-Paper-

Name/Title of Paper- COMPUTER ORGANIZATION AND ARCHITE Time:- Three Hours	Minimum Passing Marks-33
Note: Attempt any five questions. All questions carry	y equal marks.
1 Explain floating point arithmetic operations with exam	
What is instruction? Explain types of instructions and example.	
2 Explain ALU design in detail. How the overflow han OR	dled by ALU? 20
Explain different types at designing controller.	
3 What is main memory? Explain its types with differe OR	nce in detail. 20
What is virtual memory? How it is implemented?	
4 Explain different types of computer based on speed as	
Explain different types of pipelining with suitable ex	ample.
5 What is DMA? Why are need DMA? Write its advan	ntage in detail. 20
Explain tightly coupled MIMD architecture in detail.	•