

AJ-1346

(018) B.C.A. Part–III (THREE) Term End Examination, 2021-22

COMPUTER ORGANIZATION AND ARCHITECTURE

Time : 3 hours]

[Maximum Marks : 100

Note : *Attempt all five questions. All questions carry equal marks.*

1 What is Instruction ? Write a brief note on types of instruction.

OR

- (a) Write difference between program compilation and program execution.
- (b) Explain the process to subtract numbers using complement's. Take a suitable example to explain the concept.

2 What is Microinstruction ? Write a brief note on address servencing in microprogrammed control unit.

OR

- (a) Write difference between Hardwired and Microprogrammed control.
- (b) Write short notes on ALU design.

3 What is Pipeline ? Write a brief note on RISC and CISC pipeline.

OR

- (a) Explain classification of computer based on size.
- (b) Write short notes on Array processor.

4 What is main memory ? Write a brief note on RAM and ROM chip. Draw its block diagram.

OR

- (a) Write short notes on Auxillary memory.
- (b) What is Page fault ? Briefly explain page replacement.

5 What is peripheral device ? Explain programmed I/O and interrupt initiated I/O mode of Data transfer.

OR

- (a) Write a brief note on DMA.
- (b) Explain Input-Output processor. Draw a block diagram of computer with I/O processor.