

January 2019

Bachelor of Computer Applications

(BCA) Examination

V Semester

Computer Organization and Architecture

**Time 3 Hours]
40**

[Max. Marks

Note : Attempt any two parts from each question. Each part of a question carries 4 marks. Each question carries equal marks.

1. (a) Draw the basic structure of a Computer and explain.
(b) Give a short note on Inter Processor Synchronization.
(c) What do you mean by PCI ? Explain.
- 2.(a) Explain auxiliary memory in the Computer System with an example.
(b) Write short note on Cache Coherence.
(c) With relevant block diagrams, explain the concept of DRAM organization.
3. (a). With example explain the different types of Instruction Formats.
(b) What are the limitations of Instruction Pipelining?
(c) Write short note on Register Organization.
- 4 (a). Explain briefly about Micro Instruction Sequencing.
(b) Explain Micro Program with a suitable example.
(c) What do you mean by Hardwired Implementation? Explain.
5. (a) With block diagrams, explain Data Transfer using DMA Controller.
(b) Describe Vector Interrupt Scheme with neat block diagram.
(c) Make the block diagram of an External Device. Explain its various components.