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January 2015

Bachelor of Computer Applications (BCA) Examination

V Semester

Computer Organization and Architecture

Max. Marks: 40 Time: 3 Hours] Note: Attempt any two parts from each question. Each part of a question carries 4 marks. Each question carries equal marks. 1. (a) Define the following: (ii) PCI. (i) Bus Explain the different components of Computer system by drawing (b) its block diagram. Explain the designing of computer for good performance with (c) some recent examples. Explain the different types of secondary storage devices with 2. (a) examples. Compare briefly the following: (b) (ii) Register and Primary Memory. (i) SRAM and DRAM What is meant by optical memory? Briefly explain. (c) What is meant by operand and operation? Briefly explain. 3. (a) Explain the following terms: (b) (ii) The Power PC Processor. (i) Instruction Cycle Discuss about instruction pipelining and its advancement over (c) the recent years. What is meant by hardwired implementation? Explain with some 4. (a) examples. Explain some application of micro programmed application. **(b)** Write short notes on: (c) (i) Microinstruction Sequencing (ii) Micro Programmed Control. Differentiate between the following: 5. (a) (i) Parallel Processor and Array Processor, (ii) Programmed IO and Interrupt Driven IO. (b) What is meant by direct memory access? Explain.

Describe IO channels and processors briefly.

(c)