

Dec 2016

Bachelor of Computer Applications (BCA) Examination

V Semester

(Computer Organisation and Architecture)

Time 3 Hours] [Max. Marks 40

Note : Attempt all questions. Attempt any two parts from each question. All questions carry equal marks.

1. (a) Discuss Von-Newman model of computer.
(b) Name any ten hardware internal components of computer with their function.
(c) What do you mean by 'bus' ? Discuss different classification of bus lines.
2. (a) Discuss the hierarchy of computer memory with suitable diagram.
(b) Explain RAID. Differentiate between RAID level 2 and RAID level 4.
(c) Write short note on optical memory.
3. (a) What do you mean by addressing mode ? Explain any two addressing modes with suitable example.
(b) What is instruction cycle ? Explain.
(c) Discuss type of operand and operations used in assembly language with suitable example.
4. (a) What is the relationship between instruction and micro- operations?
(b) Describe briefly the execution of micro instruction.
(c) What is the difference between hardwired and micro programmed implementation of control unit.
5. (a) What are the major function of I/O module ?
(b) Differentiate between mapped I/O and isolated I/O.
(c) Write short note on characteristics of I/O channels.