

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-1 – September 2017

B.Tech CSE 6th Semester

COURSE CODE: 10B11CI613

MAX. MARKS: 15

COURSE NAME: Computer Organisation and Architecture

COURSE CREDITS: 04

MAX. TIME: 1 Hrs

Note: All questions are compulsory. The carrying of mobile phone during examinations will be treated as a case of unfair means.

1. (a) What is the difference between Computer Organization and Computer architecture?
(b) Explain the four main structural components of computer:
 - i. Central Processing Unit (CPU)
 - ii. Main Memory
 - iii. I/O
 - iv. System Interconnection(c) Draw and explain the partial flow chart of IAS operation. [1+2+2]
2. (a) Draw and explain the Possible Organization of an Embedded Systems.
(b) What is the difference between Acorn RISC Machine and x86 architecture?
(c) State Amdahl's Law for microprocessors. [2+2+1]
3. (a) Draw and explain Computer Components: Top Level View
(b) Explain Instruction Cycle State Diagram
(c) Explain Instruction Cycle State Diagram With Interrupts. [2+1+2]

CI-1, BT