

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- September 2018

Ph.D. I Semester

COURSE CODE: 14P1WCI231

MAX. MARKS: 15

COURSE NAME: MODELING ANALYSIS AND OPTIMIZATION OF NOC
COMMUNICATION

COURSE CREDITS: 03

MAX. TIME: 1Hr

Note: All questions are compulsory. Each question carries equal marks. Carrying of mobile phone during examinations will be treated as case of unfair means.

1. (a) Draw and Explain Generic NoC architecture, application and its mapping to the NoC
(b) What are the Advantages of NoC Architectures over common bus architecture?
2. (a) What are the various traffics used in Application Modeling and Optimization for NoC Communication?
(b) What is the difference between Packet routing and Circuit routing
3. Explain the following Communication Infrastructure:
 - i. Topology Design
 - ii. Router Design
 - iii. Network Channel Design
 - iv. Design Space in 3D Representations

