Prof. Shailendon Shubla

## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -2 EXAMINATION- Oct 2017

## B.Tech/M.Tech VII/II Semester

COURSE CODE: 10M11CI112

MAX. MARKS:25

COURSE NAME: ADVANCED COMPUTER NETWORKS

**COURSE CREDITS: 3** 

MAX. TIME: One Hour Thirty Minutes

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

Question 1: With the help of a diagram explain 802.11 MAC headers.

[4 Marks]

Question 2: Write the importance of flow control at Datalink layer? Why is ARQ said to an effective method for Error control? Explain 'Go-Back-N' ARQ? Assume that, in a Stop-and-Wait ARQ system, the bandwidth of the line is 1 Mbps, and 1 bit takes 20 ms to make a round trip. What is the bandwidth-delay product? If the system data frames are 1000 bits in length, what is the utilization percentage of the link? [8 Marks]

## Question 3: What is RARP? Explain the given figure

[4 Marks]

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## Question 4: Write short notes on:

[9 Marks]

- 1. Signal-to-Noise Ratio (SNR).
- 2. Expected Transmission Count ETX
- 3. Pulse Code Modulation
- 4. A complex bandpass signal has a bandwidth of 200 kHz. What is the minimum sampling rate for this signal?
- 5. Explain hidden station and exposed station problem
- 6. RJ 45 and 100 base T.