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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY WAKNAGHAT

T-1 EXAMINATION (SEPTEMBER 2018)

M.Tech 1st Sem. & B.Tech 7th Sem. (ECE)

COURSE CODE: 10M11EC113

MAX. MARKS: 15

COURSE NAME: Advanced Telecommunication Networks

COURSE CREDITS: 3

MAX. TIME: 1 Hrs.

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

- Q 1.** A packet switch has to be designed. With the help of a suitable diagram, discuss the various components of a packet switch in detail. Discuss some switching fabrics. (5)
- Q 2. a)** Differentiate between circuit switching and packet switching.
- Q2. b)** Differentiate between frequency hopping spread spectrum (FHSS) and direct sequence spread spectrum (DSSS). (2.5+2.5 = 5)
- Q 3. a)** Discuss the working of Checksum method with an example. (2)
- Q3. b)** Given the dataword **1101011011** and the divisor **10011**,
- Show the generation of the codeword at the sender site.
 - Show the checking of the codeword at the receiver site (assume no error). (2+1=3)