JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST-2
B.Tech. ECE, 7th Sem.

COURSE NAME: DESIGN OF DEPENDABLE SYSTEMS   MAX. MARKS: 25

COURSE CODE: 18B1WEC732   MAX. TIME: 1.5 Hr

Note: Using of mobile phone in examination shall be treated as a case of unfair means.

Q-1: Explain the process of Quality of Service (QoS) mapping in terms of service request and service offering?   (CO-2)   [3]

Q-2: Explain with giving examples, generic structure of a Service Level Agreement according to the ITU-T recommendations E.860. (CO-2)   [3]

Q-3: According to the ITU-T Recommendation E.800 the QoS is defined as *"the collective effect of service performances which determine the degree of satisfaction of a user of the service"*. In this reference, justify, how serveability performance and dependability performance supports this definition.   (CO-2)   [4]

Q-4: (a) Give the time diagram of failure and recovery process. (CO-2)   [2]

(b) What do you mean by the network integrity and network survivability? How both are related. (CO-2)   [3]

Q-5: Explain following concepts: (CO-3)

(a) Service level specification (SLS)
(b) Traffic conditioning agreement (TCA)
(c) Traffic conditioning specification (TCS)   [2*3=6]

Q-6: In case of next generation network, discuss the role of end-to-end service level agreements to enable a Quality of Service (QoS) path. (CO-3)   [4]