Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058, India
(Autonomous College Affiliated To University of Mumbai)

Mid Semester Examination
March 2019

Max. Marks: 20

Class: TE EXTC

Duration: 1 Hrs

Semester: VI

Name of the Course: Computer Communication Network

Course Code: ET602

Branch: Electronics and Telecommunication

Instruction:

All questions are compulsory

Draw neat diagrams

Assume suitable data if necessary with justification

Q1(a)	Explain each layer of OSI reference model with its functionality. (Proper explanation about each layer carry (5/7) Marks.)	5 Marks	CO1
Q1(b)	Explain DNS server in detail. Introduction of DNS server (1 Mark) Basic functionality (1 Mark) Name Space (1 Mark) Hierarchy of name servers (1 Mark) Examples (1 Mark) OR Recursive Resolution operation with diagram (2 Mark) Advantage/Disadvantage of Recursive Resolution (0.5 Mark) Iterative Resolution operation with diagram (2 Mark) Advantage/Disadvantage of Iterative Resolution (0.5 Mark)	5 Marks	CO2
Q2(a)	Explain SMTP in detail. Introduction of SMTP (1 Mark) Basic functionality of SMTP (1 Mark) Commands of SMTP (at least 3) (1 Mark) Example of SMTP (1 Mark) Limitation of SMTP (1 Mark) OR Explain Post office protocol, version 3 in detail. Introduction of Post office protocol, version 3 (1 Mark) Basic operation of SMTP (1 Mark) Modes of operation of SMTP (1 Mark) Diagrammatic representation of SMTP (1 Mark) Disadvantages og SMTP (1 Mark)	5 Marks	CO2
Q2(b)	Write short note on Network layer Duties. (Explain any 5 duties of network layer) Each duty of network layer with proper explanation carry 1 mark each.	5 Marks	CO3