



**Sardar Patel Institute of Technology**

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058, India

(Autonomous College Affiliated To University of Mumbai)

**End Semester Examination Synoptic**

**May-June 2019**

**Max. Marks: 60**

**Duration: 3 Hrs**

**Class: TE EXTC**

**Semester: VI**

**Name of the Course: Computer Communication Networks**

**Course Code: ET62**

**Branch: Electronics and Telecommunication**

**Instructions:**

All questions are compulsory

Draw neat diagrams

Assume suitable data if necessary with justification

|              |   |   |                           |
|--------------|---|---|---------------------------|
| <b>Q1(a)</b> | Explain OSI model in detail<br>(Give all layers information)  | <b>06</b>   | <b>CO1</b>                |
| <b>Q1(b)</b> | Give any six difference between OSI and TCP-IP model<br>(Each difference carry 1 mark)  | <b>06</b>   | <b>CO1</b>                |
| <b>Q2(a)</b> | 1) Introduction of HTTP.<br>2) Diagrammatic representation of HTTP<br>3) Working of HTTP<br>4) Advantages of HTTP<br>5) Disadvantages of HTTP | <b>01</b><br><b>01</b><br><b>02</b><br><b>01</b><br><b>01</b> | <b>CO1,</b><br><b>CO2</b> |

|       |  |   |             |
|-------|--|---|-------------|
|       | <p>OR</p> <p>1) Introduction of FTP</p> <p>2) Diagrammatic representation of FTP</p> <p>3) Working of FTP</p> <p>4) Advantages of FTP</p> <p>5) Disadvantages of FTP</p>   | <p>01</p> <p>01</p> <p>02</p> <p>01</p> <p>01</p>   |             |
| Q2(b) | <p>1) Introduction of POP3</p> <p>2) Diagrammatic representation of POP3</p> <p>3) Working of POP3</p> <p>4) Advantages of POP3</p> <p>5) Disadvantages of POP3</p> <p>OR</p> <p>1) Introduction of DNS</p> <p>2) Diagrammatic representation of DNS</p> <p>3) Working of DNS</p> <p>4) Advantages of DNS</p> <p>5) Disadvantages of DNS</p> | <p>01</p> <p>01</p> <p>02</p> <p>01</p> <p>01</p> <p>01</p> <p>01</p> <p>01</p> <p>02</p> <p>01</p> <p>01</p> | CO3         |
| Q3(a) | Differentiate IPv4 and IPv6 protocols<br>(Give any six difference between IPv4 and IPv6)   | 06  | CO3         |
| Q3(b) | <p>Explain Border Gateway Protocol</p> <p>1) Introduction of Border Gateway Protocol</p> <p>2) Diagrammatic representation of Border Gateway Protocol</p> <p>3) Working of Border Gateway Protocol</p>   | <p>01</p> <p>01</p>   | CO2,<br>CO3 |



|              |  |                |             |
|--------------|--|----------------|-------------|
|              | 4) Advantages of Border Gateway Protocol   | 01             |             |
|              | 5) Disadvantages of Border Gateway Protocol  | 01             |             |
| <b>Q4(a)</b> | Write short note on threats and attacks<br>1) Define threat and attack in detail<br>2) Effects of threats and attacks<br>3) Examples of threat and attack  | 02<br>02<br>02 | CO2,<br>CO3 |
| <b>Q4(b)</b> | Write short note on firewall<br>1) Brief introduction of firewall<br>2) Detail working of firewall<br>3) Limitations of firewall   | 02<br>02<br>02 | CO2,<br>CO3 |
| <b>Q5(a)</b> | Explain stop and wait algorithm in detail<br>1) Detail explanation of stop and wait algorithm<br>2) Diagrammatic representation of each step   | 03<br>03       | CO3         |
| <b>Q5(b)</b> | Write short note on socket programming<br>1) Detail explanation of socket programming<br>2) Example of socket programming<br><b>OR</b><br>Compare UDP and TCP<br>(Any six points of differentiation between UDP and TCP. Each difference carry 1 mark) | 03<br>03       | CO3         |