

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(Sixth Semester)

Branch – INFORMATION TECHNOLOGY

DISCIPLINE SPECIFIC ELECTIVE – II : TCP/IP

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry **EQUAL** marks **(10 x 1 = 10)**

Cont.

SECTION - B (25 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 5 = 25)

- 11 a Analyze about the Switched WANs with example.
OR
b Explain the OSI model with neat diagram.
- 12 a Classify in detail about the two types of Delivery of IP protocols.
OR
b Prepare a note on Sub netting.
- 13 a Describe about the Checksum with example.
OR
b Summarize in detail about the Transmission Control Blocks (TCB).
- 14 a Develop and explain the Mode of Operation.
OR
b State a note on Network Virtual Terminal.
- 15 a Narrate about the Packet Format in detail.
OR
b Organize and explain about the Extension Header.

SECTION - C (40 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 8 = 40)

- 16 a Identify and give detailed note on different Layers in TCP/IP protocol suite with a neat diagram.
OR
b Enumerate in brief about TCP/IP Addressing.
- 17 a Highlight in detail about the Structure of a Router.
OR
b Discuss the Fragmentation and its process with neat diagram.
- 18 a Categorize about the Datagram.
OR
b Examine in detail about the TCP Services.
- 19 a Discover the Organization of TFTP and its functions.
OR
b Survey about Option and examine the Option Negotiation.
- 20 a Compare between IPv4 and IPv6 Headers.
OR
b Elucidate function does the Flow Label field in the IPv6 header perform.