

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2018  
(Fifth Semester)

Branch –SOFTWARE SYSTEMS  
(Five year integrated)

**DATA COMMUNICATION & NETWORKING**

Time: Three Hours

Maximum: 75 Marks

**SECTION -A (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

- 1 a Explain briefly on Computer Networks.  
OR  
b Explain briefly on protocols and standards.
- 2 a Discuss the various duties of physical layer.  
OR  
b Discuss on circuit switching with diagram.
- 3 a Explain the duties of Data Link layer.  
OR  
b Explain briefly on Frame delay and ATM.
- 4 a Discuss the working principles of Internet working.  
OR  
b Discuss the duties of Transport layer.
- 5 a Explain briefly on DNS, HTTP and WWW.  
OR  
b Explain briefly on Cryptography.

**SECTION -B (45 Marks)**

Answer any THREE questions

ALL questions carry EQUAL Marks (3 x 15 = 45)

- 6 Discuss OSI model with neat diagram.
- 7 Explain the various transmission media in detail.
- 8 Discuss Error detection and Error correction.
- 9 Explain ICMP, IGMP, UDP and TCP.
- 10 Discuss Network Security in detail.

Z-Z-Z

END