

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc DEGREE EXAMINATION DECEMBER 2018
(Fifth Semester)

Branch -SOFTWARE SYSTEMS
(Five year integrated)

DATA COMMUNICATIONS & 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 various topologies with diagram.
OR
b What is meant by network? Explain its categories.
- 2 a Write short note on twisted - pair cable.
OR
b Give a detailed note on FDM.
- 3 a Briefly discuss the duties of DLL.
OR
b Explain error detection and correction mechanisms with example.
- 4 a Describe in short about ICMP.
OR
b Write a detail note on multicast routing.
- 5 a Discuss various issues of Application layer.
OR
b Give a detail note on www and HTTP.

SECTION -B (45 Marks!)

Answer any **THREE** questions

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

- 6 Write a detail note on the functions of OSI model.
- 7 Discuss circuit switching with example.
- 8 Explain ATM layer and its functions.
- 9 Write a detail note on UDP and TCP.
- 10 Give a short note on cryptography. Explain any one symmetric key algorithm.