PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2018
(First Semester)

Branch - APPLIED ELECTRONICS

COMMUNICATION PROTOCOLS

'Fime : Three Hours   Maximum : 75 Marks

SECTION -A (30 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks (5 x 6 ^ 30)

1 a Explain the network architecture based on OSI reference model.
OR
   b Describe the functions of the data link layer.

2 a Write a brief note on serial communication protocols.
OR
   b Explain the features of serial peripheral interface.

3 a List the features of LANs.
OR
   b What is Token passing? Explain.

4 a Differentiate Fast Ethernet and Gigabit Ethernet. .
OR
   b With a neat sketch, explain the term : Token ring.

5 a Explain the address structure and major features of IP.
OR
   b Write a note on (i) e-mail and (ii) HTTP.

SECTION -B (45 Marks!
Answer any **THREE** questions
ALL questions carry **EQUAL** Marks (3 x 1 5 = 45)

6   Give detail account on Bus, Star and Ring network topologies.

7   With suitable sketches, explain ISA / PCI Bus protocols.

8   Explain in detail, the frame format of IEEE 802.3 and IEEE 802.5 standards.

9   Discuss the functions and importances of
       (i) Hubs (ii) Bridges and (iii) Routers

10   Explain in detail, the layers and operations of TCP/IP with example.