PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MCA DEGREE EXAMINATION MAY 2018
(Fourth Semester)

Branch - **COMPUTER APPLICATIONS**

COMPUTER NETWORKS

Time: Three Hours   Maximum: 75 Marks

SECTION -A 130 Marks)
Answer ALL questions
ALL questions carry EQUAL Marks (5 x 6 = 30)

1 a Discuss the categories of Network.
                          OR
   b Explain the TCP / IP Protocol suite.

2 a What is transmission impairment?
                          OR
   b Explain the guided transmission media.

3 a Explain the error detection and correction in Data Link Layer.
                          OR
   b What are Virtual LANS?

4 a Explain the packet format of IPv4.
                          OR
   b Discuss the message format and operations of IGMP.

5 a Compare UDP and TCP.
                          OR
   b Explain the architecture of e-mail system.

SECTION *B (45 **Marks!**
Answer any THREE questions
ALL questions carry **EQUAL** Marks (3 x 15 = 45)

6   Describe the functions of OSI model with neat diagram.

7   Explain the different multiplexing techniques.

8   Write in detail about cyclic codes and checksum.

9   Discuss the unicast routing protocols.

10   Write in detail about Domain Name Systems.

                          Z-Z-Z   END