Code: **17ECMC2T4**

I M.Tech - II Semester – Regular/Supplementary Examinations
July 2019

OPTICAL NETWORKS
(MICROWAVE & COMMUNICATION ENGINEERING)

Duration: 3 hours   Max. Marks: 60

Answer the following questions.

1. Draw the Block diagram of Elements of a SONET
   infrastructure and explain in detail.   15 M

(OR)

2. Write short notes on:
   a) Storage area network.   8 M
   b) Fiber channel.   7 M

3. With a neat schematic diagram, explain the following
   a) Optical Line Terminal.   10 M
   b) Optical Line Amplifier.   5 M

(OR)

4. How optical crossconnect used in the network and explain its
   operation.   15 M

5. How network management functions are implemented on a typical network.   15 M

(OR)

6. Write short note on:
   a) Layer with in Optical Network   8 M
   b) Open fiber control protocol   7 M

7. Briefly explain different types of protection in SONET/SDH.
                                                                    15 M

(OR)

8. Explain FTTC with neat diagrams.   15 M