Total No. of Questions :8]   [Total No. of Printed Pages :2

Roll No ....

MEDC - 204

M.E./M.Tech., II Semester

Examination, December 2015

Optical Network

Time : Three Hours

Maximum Marks : 70

Note : i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) Discuss briefly about the second generation optical network.
   b) Explain briefly about the virtual circuit services and data gram.

2. a) With the help of diagram explain the working of optical coupler and optical isolator.
   b) Discuss the working principle of electro-optic and SOA switches.

3. a) Discuss the principle of acoustics optical tunable filters.
   b) What are the goals of SONET design?

4. a) Explain briefly about the SDH Hierarchy.
   b) Explain briefly about the IP layer architecture.

5. a) Explain briefly about the media access control protocol.
   b) Explain the principle of LAMBDANET.

6. a) What is wavelength cross connect? How the reuse the wavelengths?
   b) Explain briefly about operation traffic models.

7. a) Discuss the principles of photonic packet switching.
   b) Explain the principle of Terahertz Optical Asymmetric Demultiplexer.

8. Write short notes on any two of the following :
   a) FDDI
   b) ESCON
   c) OTDM

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