MEDC-204

M.E./M.Tech. II Semester

Examination, May 2018

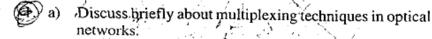
Optical Network

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.



- b) Explain about virtual circuit services and datagram.
- Explain the following Network Components:
 - Couplers

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- Isolators
- Circulators
- Multiplexer

MEDC-204

- Discuss the working principle of fiber Bragg grating as Add-drop multiplexer.
 - Explain the working of acoustic optical tunable filter.
- Explain how is multiplexing done in SONET. Discuss about the elements of SONET.
 - Discuss the IP layered architecture.

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- Discuss about Aloha and slotted Aloha.
 - Explain briefly about Medium Access Control (MAC) protocol.
- Discuss about virtual topology and circuit switching and node design in wavelength routing network.
 - Discuss about static and reconfigurable network.
- Discuss about Optical Time Domain Multiplexing (OTDM).
 - Discuss the working principle of terahertz optical asymmetric demultiplexer.
- 8. Write short notes on any two of the following:
 - a) Electro-optic and Thermo-optic switch
 - b) FDDI
 - **LAMDA NET**

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