Code No: D6505 **R09**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.Tech II - Semester Examinations, March/April 2011
OPTICAL NETWORKS
(WIRELESS AND MOBILE COMMUNICATIONS)

Time: 3hours **Max. Marks: 60**

Answer any five questions
All questions carry equal marks
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1. What is the importance / use of SONET/SDH in optical communications? Discuss in detail about SONET / SDH and give their transmission formats. Discuss also SONET/SDH Rings. [12]

2. Discuss the following in detail:
   a) Add/Drop Multiplexers.
   b) Wave length routing Networks. [6+6]

3. Discuss in detail about various layers with in Optical layer and also discuss their services. [12]

4. Discuss in detail of protection schemes (Protection in SONET/SDH and IP Networks). [12]

5. Write short notes on the following:
   a) Photonic Packet Switching.
   b) Burst Switching. [6+6]

6. What is Multiplexing? Discuss in detail about Wavelength division multiplexing. [12]

7. a) Discuss in detail about Optical Safety.
   b) Explain in detail about Fiber To The Curb (FTTC). [6+6]

8. Discuss in detail about the following storage Area Networks:
   a) ESCON.
   b) HIPPI.
   c) Gigabit Ethernet. [12]

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