Code: 22ECMC2T4

I M.Tech - II Semester – Regular Examinations - JULY - 2023

OPTICAL NETWORKS
(MICROWAVE & COMMUNICATION ENGINEERING)

Duration: 3 hours   Max. Marks: 60

Note: 1. This paper contains 4 questions from 4 units of Syllabus. Each unit carries 15 marks and have an internal choice of Questions.
2. All parts of Question must be answered in one place.

BL – Blooms Level   CO – Course Outcome

			BL	CO	Max. Marks
UNIT-I					
1	a)	Explain about SONET Frame Structure.	L2	CO1	7 M
	b)	Describe the Elements of SONET/SDH with neat sketches.	L2	CO1	8 M
OR					
2	a)	Summarize about the Functions of ATM.	L2	CO1	8 M
	b)	Analyze the Signaling and Routing concept of ATM.	L4	CO1	7 M
UNIT-II					
3		Explain about the following. a) LTD and RWA Problems b) Light path Topology Design	L2	CO2	15 M
OR					
4		Analyze about Wavelength Assignment and Wavelength Conversion methods.	L4	CO2	15 M

UNIT-III

5	a)	Explain about Management Framework in detail.	L4	CO3	8 M
	b)	Discuss about the Layers within Optical Layer.	L2	CO3	7 M
OR					
6		Demonstrate the concept of Optical Layer Services and Interfacing with neat sketches.	L3	CO3	15 M

UNIT-IV

7	a)	Explain the Basic Concepts of Survivability.	L4	CO4	7 M
	b)	Analyze about the Protection in IP Networks.	L4	CO4	8 M
OR					
8		Analyze the Optical Layer Protection Schemes in detail.	L4	CO4	15 M