

K. J. Somaiya Institute of Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

Nov – Dec 2025		
(B. Tech) Program: Electronics and Telecommunication Engineering Scheme IIB		
Regular Examination: LY Semester: VII		
Course Code: EXDLC7042 and Course Name: Wireless Network		
Date of Exam: 27-11-2025	Duration: 02.5 Hours	Max. Marks: 60

Instructions:

- (1) All questions are compulsory.
- (2) Draw neat diagrams wherever applicable.
- (3) Assume suitable data, if necessary.

Q. No.	Question	Max. Marks	CO	BT level
Q 1	Solve any two questions out of three: (05 marks each)	10		
a)	Describe wireless network architecture in detail.		1	U
b)	Differentiate between UWB Impulse radio and multiband OFDM.		2	U
c)	Describe IEEE 802.11 WLAN Architecture.		3	U
Q 2	Solve any two questions out of three: (05 marks each)	10		
a)	Explain Network protocols of WiMAX		4	U
b)	Describe the features of MANETs.		5	U
c)	Describe The Protocol stack of Wireless Mesh Network.		6	U
Q.3	Solve any two questions out of three. (10 marks each)	20		
a)	Describe ZigBee protocol stack with diagram. Explain Components used in ZigBee.		2	U
b)	Differentiate between IEEE 802.11 a, 802.11 b, 802.11 g, 802.11 n with respect to their technical specifications.		3	U
c)	Differentiate between IEEE 802.11 WLAN and IEEE 802.16 WMAN.		4	U
Q.4	Solve any two questions out of three. (10 marks each)	20		U
a)	Explain Radio specification architecture and its types.		2	U
b)	Describe Vehicular Ad hoc Network Architecture in detail.		5	U
c)	Explain Wireless Sensor Network Architecture in detail. List various routing protocols in Wireless Sensor Network.		6	U
