

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

May-June 2025			
		B. Tech Program	Scheme IIB
		Regular Examination: SY	Semester: IV
Course Code: EXC 404	and	Course Name: Principle of Communication Engineering	
Date of Exam: 26/05/2025		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)	Compare Analog and Digital Communication System		CO1	U
b)	Modulation index for AM should be less than one. Justify/Contradict		CO2	U
c)	Explain FM Modulator		CO3	U
Q 2	Solve any two questions out of three: (05 marks each)	10		
a)	Explain TRF receiver drawbacks		CO4	U
b)	What is aliasing? How can it be prevented?		CO5	U
c)	Write applications of TDM and FDM?		CO6	U
Q.3	Solve any two questions out of three. (10 marks each)	20		
a)	Classify Noise and Explain the internal noises affecting communication		CO1	U
b)	Explain Low Level AM Modulator		CO2	U
c)	Explain the working of indirect FM signal generation method		CO3	U
Q.4	Solve any two questions out of three. (10 marks each)	20		
a)	Explain FM Receiver		CO4	U
b)	Explain PPM modulation and demodulation techniques		CO5	U
c)	Explain DM modulation and demodulation techniques		CO6	U
