$\sim$	D - II I	No
<b>`</b> K	ROIL	NIO.
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	PRINCIPLE OF COMMUNICATION ENGG  3 <sup>rd</sup> Exam/ECE/ECE-II/ETV/0615/0261/Nov'17		
Durati	on: 3Hrs.	M.Marks:75	
	SECTION-A		
	l in the blanks.	1.5x10=15	
a.	SSB stands for		
b.	PPM stands for		
C.			
d.	In AM, The value of m lies between		
e.	Synchronization is necessary for		
f.	In FM, more the frequency deviation,the number of sidebands.		
g.	Multiplexing is used to		
h.	In PCM, quantization noise depends on		
i.	In communication system, noise affects		
j.	In DSB-SC wave,is suppressed.		
	SECTION-B		
Q2. At	tempt any five questions.	5x6=30	
i.	What are the advantages of modulation?		
ii.	Write a short note the frequency spectrum of AM wave.		
iii.	Differentiate between DSB and SSB systems.		
iv.	State sampling theorem.		
٧.	Explain the working principle of diode detector.		
vi.	Explain the principle of Delta modulation.		
vii.	What are multiplexing and its types?		
	SECTION-C		
Q3. At	tempt any three questions.	3x10=30	
a.	Explain the block diagram of a basic communication system with the help	of diagrams.	
	Explain the principle of operation of Armstrong method for FM generation.		
c.	Write a short note on:		
	i. Pulse amplitude modulation		
	ii Pulse width modulation		

- d. Explain working and principle of Ratio Detector.
- e. What is Amplitude Modulation? Derive an expression for AM wave.