SΒ	Roll	No
J.D.	NOII	INU

	on: 3hrs.	EMP/ECE II/6107/22		rks: 75
u t		SECTION: A	141.1410	11 K3. 73
0.1	Do as directed:	2011011171		1.5x10=15
		_		2.0%20 20
b)	Propagation constant term is used in A two port network may have	and	elements.	
c)	Attenuators are used to	the voltage, curr	ent or power.	
d)	Variable attenuators have constant	and	impedances.	
e)	A line works as filter.			
f)	The characteristics impendence of distor	rtion less line is		
•	In a transmission line, VSWR is a			
h)	Butterworth filter has	response.	•	
	For high pas filters, pass band extends u		_•	
j)	attenuator is used as v			ver.
	S	SECTION: B		
.2 At	tempt any five questions:			5x6=30
- 1				
a)	Explain different losses in a transmission	line.		
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b)	Explain different losses in a transmission			
b) c)	Explain different losses in a transmission Derive the relationship between decibel a			
b) c)	Explain different losses in a transmission Derive the relationship between decibel a Discuss in brief butter worth filter.	and Neper.	shift constant	
b) c) d)	Explain different losses in a transmission Derive the relationship between decibel a Discuss in brief butter worth filter. Define the terms	and Neper.	shift constant	
b) c) d)	Explain different losses in a transmission Derive the relationship between decibel a Discuss in brief butter worth filter. Define the terms (i) Propagation constant (ii) Attenuation	and Neper. constant (iii) Phase	shift constant	
b) c) d) e) f)	Explain different losses in a transmission Derive the relationship between decibel a Discuss in brief butter worth filter. Define the terms (i) Propagation constant (ii) Attenuation Write short note on insertion loss.	and Neper. constant (iii) Phase ork?		
b) c) d) e) f)	Explain different losses in a transmission Derive the relationship between decibel a Discuss in brief butter worth filter. Define the terms (i) Propagation constant (ii) Attenuation Write short note on insertion loss. What is phase constant of two port networks	and Neper.  constant (iii) Phase  ork?  circuit impedance of	half section.	tic impedance
b) c) d) e) f) g)	Explain different losses in a transmission Derive the relationship between decibel a Discuss in brief butter worth filter. Define the terms (i) Propagation constant (ii) Attenuation Write short note on insertion loss. What is phase constant of two port network Derive an expression for open and short of How is a line represented by a T-circuit? I	and Neper.  constant (iii) Phase  ork?  circuit impedance of  Derive an expression	half section.	tic impedance
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- (ii) What are the properties of asymmetrical network?
- b) (i) Discuss the operation of symmetrical bridge T-type attenuator.
  - (ii) Discuss the concept of ladder attenuator.
- c) Explain the concept of working of Low Pass and High pass filters and band pass filters.
- d) Derive an expression for characteristics impedance using  $\pi$  type network circuit for transmission line.