CD	Dall	No
3.B.	KOII	No

		MODERN ELECTRIC TRACTION				
	6 th /Elect/5235/6252/Nov' 2016					
Duration: 3 hours			Max marks: 75			
		SECTION A				
Q 1: Fil	(15x1=15)					
a)		n lighting system dynamo has to operate in with batte	ries.			
b)		Kando system'motors are used				
c)		rea of speed time curve represents				
d)		g coasting period of speed-time curve power required is				
e)		tands for				
f)		smoothens out the ripples in the DC output of the rectifier.				
		electric locomotive, collects the current from the overh	ead equipment.			
h)		pe of DC motor used in electric traction is				
i)		cteristic of good traction system is				
j)		o-efficient of adhesion is on wet tracks as compared				
k)		ffective force required on the wheels of locomotive is known as _				
I)		mways return circuit is through				
		raction sub-stations are fed by means of transmissi				
		urpose of tap changer in AC locomotive is to provide	voitage			
0)	in line	ear induction motor motion is obtained				
		SECTION B				
O 2 A+	tomat		(6x5=30)			
Q 2. Attempt any six questions (i) Explain speed time curve with a neat sketch.						
-		/hat are the advantages of 25 KV AC systems over DC system?				
-	-	plain OHE supporting structure.				
-		kplain one supporting structure. Kplain various types of electric braking.				
-		escribe the types of electric braking.	ay coaches			
		escribe the vaious traction systems in India.	ay coaches.			
		plain linear induction motor.				
-		xplain sectioning insulators.				
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		SECTION C				
Q 3. At	tempt	any three questions	(3x10=30)			
(i)	•	n the block diagram of Electric locomotive.				
(ii)	•	n the working of double battery parallel block system.				
(iii)) Explai	n the following:				
	a.	Circuit breakers.				
	b.	DC series motor.				
(iv) Explain the various desirable characteristics of traction motors.						
	•	n the following:				
- ,	a.					
	b.	Sectioning and paralleling posts.				