CD	Dall	No
3.D.	ROII	NO

MODERN ELECTRIC TRACTION 6th /Elect/5235/Nov'15

Duration	: 3 hrs	M.Marks =75		
Durumon	SECTION A	1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/		
Q1 Fill in	the blanks:	10x1.5=15		
i.				
ii.	Single phase low frequency a.c. system uses motor			
iii.	In dc locomotive supply voltage at starting is reduced by			
iv.	Steam engine driveinitial cost as no track electrification is needed			
v.	In India voltage used for overhead supply for trains is			
vi.	1	comotive in case of		
	fault in the equipment			
vii.				
viii.				
ix.				
X.	smoothen out the ripples in the dc output of rectifier.			
	SECTION B			
_	empt any FIVE questions:	5x6=30		
I.	What are the advantage of electric drive and limitation of electric drive?			
II.	Compare AC and DC system of traction.			
III.	What is meant by specific energy consumption and what factors affect the same?			
IV.	Discuss briefly the method of speed control of single phase a.c. series motors.			
V.	Explain the crest speed average speed and schedule speed?			
VI.	Write short note on (a) Section and parallel post			
****	(b) Subsection and post			
VII.	Describe the various types of air conditioning installation used in Indian r	allway coaches?		
	SECTION C	2 10 20		
_	empt any THREE questions:	3x10=30		
I.	Explain the working of single battery system? Also discuss the advantage system?	es of single battery		
II.	Explain with neat sketch the block diagram of an electric locomotive?			
III.	What are the major equipment of a dc substation?			
IV.	Write short note on the following			
	a. Plugging b. regenerative breaking c. Rheostatic Breaking			