Total No. of Printed Pages:02

SUBJECT CODE NO: H-250 FACULTY OF SCIENCE AND TECHNOLOGY

B.E. (EEP/EE/EEE)

Elective-II: Electric Traction & Utilization (REVISED)

[Time:	Three Hours] [Max. Marks	80]
N.B	Please check whether you have got the right question paper. i) Q. 1 & Q. 6 are compulsory ii) Solve any two from section A & B excluding compulsory questions iii) Assume suitable data Section A	
Q.1	Attempt any five	10
	a) Define traction	
	b) Give the function of flywheel	
	c) Give the function of SCR	
	d) Define sag and tension	
	e) Give the principle of DC generator	
	f) Give the function of current collectors	
	g) Give the difference between DC generator and DC motor	
	h) Draw the block diagram of AC electric locomotive	
Q.2	a) Explain hybrid drive system	08
	b) Explain single phase high frequency AC system	07
Q.3	a) Explain working principle of linear-induction motor	08
	b) Explain signaling interference in telecommunication circuits	07
Q.4	a) Explain feeding and distributing system	08
	b) Give the difference between electrical and mechanical breaking system	07
Q.5	a) Write a short note on characteristics of traction motors	08
27/27	b) Write a short note on choice traction system	07
P S S	Section B	
Q.6	Attempt any five	10
	a) Define duty cycle	
	b) What is regeneration	
	c) What are the factors affecting electric traction motor speed	
	d) What are the different components of substation	
	e) What are the different types of controllers	
	f) What is the use of Metadyne	
	g) Give the function of braking	
	h) What is the use of interlocks	
1000	? X7, C7, \$7, 6 X, \$7, \$7, \$7	

Examination NOV/DEC 2018

		H-250
Q.7	a) Explain schedule speed and factors affecting it.b) Explain master controllers	08 07
Q.8	a) Explain room air conditioners.b) Explain magnetic track braking system?	08 07
Q.9	a) Explain Rheostatic braking system?b) Explain water cooler system	08 07
Q.10	a) Write a short note on average acceleration and speedb) Write a short note on multiple unit control?	08 07