	No

	ELECTRICAL POWER-I	
	5 th Exam/Elect/EEE/2527/Nov'18	
Durati	on: 3Hrs. M.Marks:75	
	SECTION-A	
Q1. Fil	l in the blanks. 10x1.5=15	
a.	The basic principle applied in murry loop test is	
b.	When insulator of one of the line conductor fails, the fault is called	
с.	For combined power and lighting loadsystem is used.	
	ACSR conductor stands for	
e.	The insulation resistance of the cable isproportional to its length.	
f.	In India Transmission of electric power is made by system.	
g.	Power factor of resistive load is always	
h.	The insulating material most commonly used for power cable is	
i. :	Which distribution system is more reliable	
j.	Underground system isthan overhead system.	
	SECTION-B	
Q2. Attempt any six questions.		
i.	What are the disadvantages of low power factor?	
ii.	Explain briefly power distribution system?	
iii.	What is tarrif? Give the qualities of a good tariff.	
iv.	Explain the string efficiency of a suspension type insulator?	
٧.	Define transposition of conductor in overhead lines. Explain why transposition is done?	
vi.	Describe the effect of ice and wind on overhead lines?	
	Compare the different types of sub-stations?	
viii.	Discuss the skin effect in overhead lines and factors on which it depends?	
	SECTION-C	
Q3. At	tempt any three questions. 3x10=30	
a.	Derive the expression for sag and span length for a transmission line?	
b.	What is meant by grading of cable? Explain why and how the grading of cable is done.	
C.	i) Describe the various methods for improvement of power factor?	
	ii) Describe maximum demand and two part tariff?	
d.	Draw the key diagram of 33/11kv/400 volt distribution substation and enlist the various auxiliaries and equipments.	
6	What is corona loss? What are the remedies to minimize the corona loss?	