CD	Dall	No
S.D.	NOII	INO

	ELECTRICAL POWER-I 5 th Exam/Electrical/EEE/2527/May'18				
Duration	•	Marks:75			
	SECTION-A				
	ill in the blanks.	15x1=15			
D.	For a particular power, the current flowing through the line decreases when the	ie transmission			
C.	voltage The skin effect isfor stranded conductors than solid conductors.				
d.					
e.		ed.			
f.					
g.					
h.	· · · · · · · · · · · · · · · · · · ·				
i.	· · · · · · · · · · · · · · · · · · ·				
j.	The area of cross-section of conductor decreases with in transm				
k.	n	ing?			
l.	Power factor of resistive load is always				
n.	In order to increase the flexibilityConductors are used. By increasing the sag on the transmission line, the tension will				
0.					
0.	eorona 1833 can be minimized if the Size of confidence is				
	SECTION-B				
	ttempt any five questions.	5x6=30			
	Discuss the various types of faults in overhead power system.	nnround			
iii.	 Explain the string efficiency of a suspension type insulator and how it can be in State the advantages of high voltage transmission. 	nproved.			
iv.		n is done?			
		ir is done.			
vi.					
vii.					
viii.	. What is Sag? Derive the formulae for sag.				
	CECTION C				
Δttem	SECTION-C ipt any three questions.	3x10=30			
	xplain the effect of wind and ice on sag and also explain the factors which affect s				
	nes.				
Q4. a)	What is corona? What is its effect? How it can be reduced?				
b) :	State skin effect and proximity effect.				
Q5. A two wire D.C distributor is 1.2 km long and is loaded as under					
	istance from feeding point A (in meters) 300 900 1200				
Load (in amperes) 100 50 30					
	ne resistance of each conductor is 0.05 ohm per 1000 meter. Calculate the voltag	e at each load			
point if the voltage at the feeding point A is maintained at 250 V.					
Q6. Explain Murray loop test for location of earth faults in underground cables.Q7. Compare the weight of conductor material required in 3-phase, 3 wire AC system with DC two wire					
	system with one conductor earthed.				
3 y 3	stem man one conductor curticul				