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Co	de No: 136EW JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERAB	R16	
	B. Tech III Year II Semester Examinations, May - 2019 DESIGN ESTIMATION AND COSTING OF ELECTRICAL SYSTEMS (Common to CE, ME, ECE, MIE) Max. Max. Max. Max. Max. Max. Max. Max.	AG	/
Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries			
AG	10 marks and may have a, b, c as sub questions. PART A	AG	/
	(25)	Marks)	
1.a)	What is Earthing?	[2]	
b)		[3]	
c)	What are the types of loads present in residential buildings?	[2]	
\triangle $(-d)$	What are the types of loads present in commercial buildings?	[3]	L
/ \ e) f)	What are the voltage levels of overhead transmission lines?	[2]	/
g)	What are the voltage levels of underground distribution lines? What is a substation?	[3]	
h)	What is the main purpose of substation?	[2] [3]	
i)	Define illumination.	[2]	
j)	How illumination is measured? Explain.	[3]	
AG	$\triangle \bigcirc \triangle \bigcirc \triangle \bigcirc \triangle \bigcirc \triangle \bigcirc \bigcirc \triangle \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$	Marks)	/
2 c) With the halo of the Late of the table of table of the table of			
2.a) b)	With the help of neat sketch, Explain about three phase four wire distributed sys Discuss in detail about the guidelines for the installation of fittings. OR	tem. [5+5]	
∧ ~3.a)	Discuss about various protections of electrical systems	A 275	/
/─\	Explain in detail about the location of switches and outlets.	[545]	/
4.a)	What are the factors to be considered for electrical installation of residential by	uilding?	
b)	Explain.	e c	
0)	Discuss in detail about the estimation of material for the electrical installa commercial building.		
A gross		[5+5]	
5.a) b)	How electrical installation is done for commercial buildings? Explain Discuss in detail about the electrical installation of small industries.	[5+5]	1
6.a)	Explain in detail about the type of support required for overhead distribution line	2	
b)	Discuss in detail about the mechanical design of overhead lines. OR	[5+5]	
7.a)	Discuss in detail about the material required for the laying of overhead transi	nission	
\triangle \bigcirc b)	Compare overhead and underground distribution lines in selection.	[5+5]	/

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