






This document is a part of Main Course File		Document No.: CFM – 8	
	SARDAR VALLABHBHAI PATEL EDUCATION SOCIETY MANAGED		
	N. G. PATEL POLYTECHNIC		
ELECTRICAL ENGINEERING DEPARTMENT			
ASSIGNMENT			
Course Name (With Code): Electrical Installation, commissioning & Maintenance - 4360901			
Semester / Year: Sixth/Third			
Assignment Number: 01			
Assignment CO Number:4360901.1			
Sr. No.	Questions related to Course Outcomes		
Part –A	Questions carrying 3 Marks		
1	Explain method of installation of transformer.		
2	Write the properties of alignment of shaft of electrical machine		
3	Explain factors to be considered in designing the foundation of electrical machine.		
4	Differentiate between the foundations for the static and rotating machines.		
Part – B	Questions carrying 4 Marks		
1	Explain how the installation of Induction motor is done		
2	Write the adverse effect of misalignment of shaft of electrical machines.		
3	Define terms Installation, Testing, Commissioning and Maintenance with respect to electrical equipment.		
Part – C	Questions carrying 7 Marks		
1	List different lifting equipment used for loading and unloading of heavy electrical equipment and explain any three in detail.		
Nilesh P. Prajapati			
Prepared By: (Name of Faculty (ies)) with signature		Signature of Head of Department	

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ASSIGNMENT			
Course Name (With Code): Electrical Installation, commissioning & Maintenance - 4360901			
Semester / Year: Sixth/Third			
Assignment Number: 02			
Assignment CO Number: 4360901.2			
Sr. No.	Questions related to Course Outcomes		
Part – A	Questions carrying 3 Marks		
1	Explain the causes of deterioration of insulating oil.		
2	Define polarization index and explain its significance.		
3	Prepare a list of commissioning test for Isolator.		
4	Explain importance of pneumatic system testing of circuit breaker.		
Part – B	Questions carrying 4 Marks		
1	Explain drying of induction motor winding using suitable diagram.		
2	Explain BDV test of insulation oil.		
3	Explain drying of winding by circulating current		
Part – C	Questions carrying 7 Marks		
1	Explain the procedure for commissioning of 3-phase induction motor.		
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ASSIGNMENT			
Course Name (With Code): Electrical Installation, commissioning & Maintenance - 4360901			
Semester / Year: Sixth/Third			
Assignment Number: 03			
Assignment CO Number: 4360901.3			
Sr. No.	Questions related to Course Outcomes		
Part – A	Questions carrying 3 Marks		
1	Give the maintenance schedule of storage battery.		
2	Explain the procedure of shutdown for substation.		
3	Define term “Overhauling”. Prepare list of overhauling activities.		
4	Explain factor to consider while preparation of maintenance schedule.		
Part – B	Questions carrying 4 Marks		
1	State advantages of live line maintenance.		
2	Define breakdown maintenance and explain activity performed during breakdown maintenance.		
3	Define preventive maintenance and state the advantages of preventive maintenance.		
Part – C	Questions carrying 7 Marks		
1	Prepare the maintenance schedule for transformer having capacity below 1000KVA.		
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ASSIGNMENT			
Course Name (With Code): Electrical Installation, commissioning & Maintenance - 4360901			
Semester / Year: Sixth/Third			
Assignment Number: 04			
Assignment CO Number: 4360901.4			
Sr. No.	Questions related to Course Outcomes		
Part – A	Questions carrying 3 Marks		
1	Prepare trouble shooting chart for D.C. series motor.		
2	Find the probable cause for “squirrel cage induction motor running below rated speed”		
3	What is trouble shooting? Write the steps to be taken in trouble shooting.		
4	List the equipment required for trouble shooting.		
Part – B	Questions carrying 4 Marks		
1	Explain troubleshooting chart of circuit breaker for any four faults.		
2	Explain common causes of faults in solar plant.		
3	Explain trouble shooting chart for transformer.		
Part – C	Questions carrying 7 Marks		
1	Explain mechanical, electrical and magnetic faults occurring in electrical equipments.		
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ASSIGNMENT			
Course Name (With Code): Electrical Installation, commissioning & Maintenance - 4360901			
Semester / Year: Sixth/Third			
Assignment Number: 05			
Assignment CO Number: 4360901.5			
Sr. No.	Questions related to Course Outcomes		
Part – A	Questions carrying 3 Marks		
1	What are objectives of earthing? Write a short note on body earthing.		
2	Describe method of measuring earth resistance by earth tester.		
3	Describe method of measuring earth resistance by earth tester.		
4	Compare equipment earthing and system grounding.		
Part – B	Questions carrying 4 Marks		
1	Explain pipe earthing with neat sketch.		
2	Explain probable reasons for higher earth resistance.		
3	Classify types portable fire extinguishers on base of their applications		
Part – C	Questions carrying 7 Marks		
1	Why earthing is necessary? Explain plate earthing with neat sketch.		
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