


This document is a part of Main Course File		Document No.: CFM – 8	
		SARDAR VALLABHBHAI PATEL EDUCATION SOCIETY MANAGED	
		N. G. PATEL POLYTECHNIC	
NAME OF THE DEPARTMENT			
FORMAT FOR ASSIGNMENTS			
Course Name (With Code): 4340901-Ployphase Transformer and Rotating AC Machines			
Semester / Year: Fourth/Second			
Assignment Number: 1			
Assignment CO Number: 4340901.1			
Sr. No.	Questions related to Course Outcomes		
Part – A	Questions carrying 3 Marks		
1	What is the function of conservator, breather and explosion vent in transformer?		
2	Which are the various conditions for parallel operation of two three phase transformers?		
Part – B	Questions carrying 4 Marks		
1	Explain Buchholz Relay with neat sketch.		
2	Explain with diagram any one method of cooling of power transformer.		
Part – C	Questions carrying 7 Marks		
1	Establish winding and vector diagram of following vector group. (i) Yd 1 (ii) Dy11 (iii) Dd6		
prepared By: (Name of Faculty (ies)) with signature		Signature of Head of Department	

This document is a part of Main Course File

Document No.: CFM – 8



SARDAR VALLABHBHAI PATEL EDUCATION SOCIETY
MANAGED

N. G. PATEL POLYTECHNIC

NAME OF THE DEPARTMENT

FORMAT FOR ASSIGNMENTS

Course Name (With Code): 4340901-Ployphase Transformer and Rotating AC Machines

Semester / Year: Fourth/Second

Assignment Number: 1

Assignment CO Number: 4340901.2

Sr. No.	Questions related to Course Outcomes
Part – A Questions carrying 3 Marks	
1	Describe how rotating magnetic field is produced when three phase AC supply is given to three phase winding.
2	Define Induction Generator and List out its applications.
Part – B Questions carrying 4 Marks	
1	Explain construction of slip ring induction motor.
2	Define slip of three phase induction motor. What is the value of slip at standstill condition of three phase induction motor?
Part – C Questions carrying 7 Marks	
1	Explain the fully automatic starter delta starter with power and control circuit diagram.

prepared By: (Name of Faculty (ies)) with signature

Signature of Head of Department

This document is a part of Main Course File

Document No.: CFM – 8



SARDAR VALLABHBHAI PATEL EDUCATION SOCIETY
MANAGED

N. G. PATEL POLYTECHNIC

NAME OF THE DEPARTMENT

FORMAT FOR ASSIGNMENTS

Course Name (With Code): 4340901-Ployphase Transformer and Rotating AC Machines

Semester / Year: Fourth/Second


Assignment Number: 1

Assignment CO Number: 4340901.3

Sr. No.	Questions related to Course Outcomes
Part – A	Questions carrying 3 Marks
1	Describe why single phase motor is not a self-starting motor?
2	Explain the function of centrifugal switch in single phase induction motor.
3	Write applications of universal motor.
Part – B	Questions carrying 4 Marks
1	Why centrifugal switch is used in split phase Single Phase Induction Motor.
2	Explain construction and working of ceiling fan motor.
Part – C	Questions carrying 7 Marks
1	Explain Construction and working of Shaded pole single phase Induction Motor.

prepared By: (Name of Faculty (ies)) with
signature

Signature of Head of Department

This document is a part of Main Course File		Document No.: CFM – 8
	SARDAR VALLABHBHAI PATEL EDUCATION SOCIETY MANAGED	
	N. G. PATEL POLYTECHNIC	
NAME OF THE DEPARTMENT		
FORMAT FOR ASSIGNMENTS		
Course Name (With Code): 4340901-Ployphase Transformer and Rotating AC Machines		
Semester / Year: Fourth/Second		
Assignment Number: 1		
Assignment CO Number: 4340901.4		
Sr. No.	Questions related to Course Outcomes	
Part – A	Questions carrying 3 Marks	
1	Compare the rotating field type alternator with rotating armature type alternator.	
2	Explain V curve in Detail.	
Part – B	Questions carrying 4 Marks	
1	Derive EMF equation for alternator.	
2	State the applications of Alternator in different fields.	
Part – V	Questions carrying 7 Marks	
1	Define voltage regulation of alternator and explain synchronous impedance method to find voltage regulation.	
prepared By: (Name of Faculty (ies)) with signature		Signature of Head of Department