Student	Fyam	No.		
Student	LAum	110		

## GANPAT UNIVERSITY

## B. Tech. Semester: VIII- Marine Engineering

## Regular Examination April – June 2017

## 2MR803 MARINE AUTOMATION AND CONTROL

ZIVIROUS IVIRILITY	Total Marks: 70			
Time: 3 Hours / As per Scheme	Total Marks. 70			
Instruction: 1. Attempt all Questions.	e de la companya del companya de la companya del companya de la co			
2. Assume suitable data if necessary	•			
3. Figure to the right indicates full N	Marks.			
4. Start new Question on New Page.				
4. Start new Question on Ten 1 ag				
SECTION				
Q. 1. Explain and elaborate the open loop and	close loop system in automation control			
	12			
system. OR •				
Q.1. what is cascade control system and what are i				
c siven feedback from	its own output Voltage. Explain with			
Q.2. AVR of generator is given feedback from its own output Voltage. Ex				
Reference to feedback system. OR				
Q. 2. Explain three terms proportional, integra	l and Derivative controls for automation			
purpose. Draw a diagram of PID control.	11			
Q. 3. Elaborate and explain pressure measurement	in ships. Define the unit of pressure. 12			
SECTION	$\Pi$			
Q. 4. What is temperature measurement device? I	Explain in briefs.			
Q. 4. What is temperature measurement OR				
Q. 4. Draw a schematic diagram of Direct on line s	tarter and explain its working principle. 12			
Q. 5. Explain the function of marine boiler automa	tion combustion condition system.			
OP				
- 1.1- legie control	s (PLC) What are the uses of PLCs? 11			
Q. 5. Define the term Programmable logic control	s (i Le). What			
Q. 6. Define Boolean logic system with the help of				
Q. 6. Define Boolean logic system with the help of				
END OF P	APER			