S.B. Roll No				
MICROPROCESSOR				
4th Exam/ECE/Comp/2565/6460/6269/2562/Dec'11				
Time A	llowed:3 Hrs Max marks =75			
Section-A				
Note:	Attempt all Questions. 15x1=15 Marks			
Q.1 A). Do as directed:				
	RAM stands for			
ii.	The most important register in the arithmetic unit is the			
iii.	When any interrupt is recognized, the 8085 automatically the interrupt system.			
1V.	The SIM instruction allow us to the interrupt mask.			
v.	e i e e e			
	Each instruction contains two parts: operation code (opcode) and  What is the addressing mode used in instruction LDA 0345 H?			
	PPI stands for			
X.	The 8253 contains three independent 16-bit			
xi.				
и.	instructions. Such an interrupt is called interrupt.			
xii.	Which of the following interrupt is unmaskable interrupt?			
B)	Answer questions (xiii) to (xv) with respect to 8085 microprocessor.			
	i. How many lines are there in data bus? v. How many I/O ports can be accessed by memory mapped method?			
	What is the length of stack pointer?			
21				
	Section-B			
Note:	Attempt any Six Questions 6x5=30 Marks			
i. ii.	Explain what is the function of ALU?			
	1 11 0			
111. iv.	1			
V.	Explain the instruction cycle and machine cycle.  Explain what is 8251?			
	_ ^, , , , , , , , , , , , , , , , , , ,			
	Explain the register indirect addressing mode with suitable example.			
viii.	TO AND THE STATE OF THE STATE O			
ix.	What are handshake signals?			
Missi	Section-C			
Note:	Attempt any three Questions (10x3= 30 Marks)			
1. 2.	Explain the programmable interval timer 8253. Explain the functions of the following signals of 8085			
2.				
	i. <u>INTA</u> ii. INTR			
	iii. HOLD iv. HLDA			
3.	v. READY What is DMA data transfer scheme? Discuss the function of DMA data controller 8257.			
3. 4.	Explain what operation is performed when the following instructions are executed:			
4.	a. DAD rp b. DAA			
	c. CMA d. CMPM			
	e. CMP r			
5.	Write short notes on following			
	a. Memory Mapped I/o scheme			

b. Evolution of Microprocessor

## ELECTRICAL ENGINEERING DESIGN AND DRAWING

4th Exam/Elect/5269/Dec'11

Duration 3 Hrs. M.Marks: 75

- Q1 a. Name the different methods of earthing
  - b. State the function of panels in a sub station
  - c. Write down the purpose of a relay in an electrical system.
  - d. Write down the function of a transformer in a substation.
  - e. Draw the electrical symbol of a push button in normally open and normally closed position.
  - f. What do you mean by remote control of a motor?
- Q2. A 3 phase induction motor is required to be started and stopped direct on line with the help of two push buttons. The motor gets started when 'start' push button is pressed. The motor steps when 'OFF' push button is pressed. Draw the control circuit and wiring diagram of the motor. Provide over load and short circuit protection to the motor.

## OR

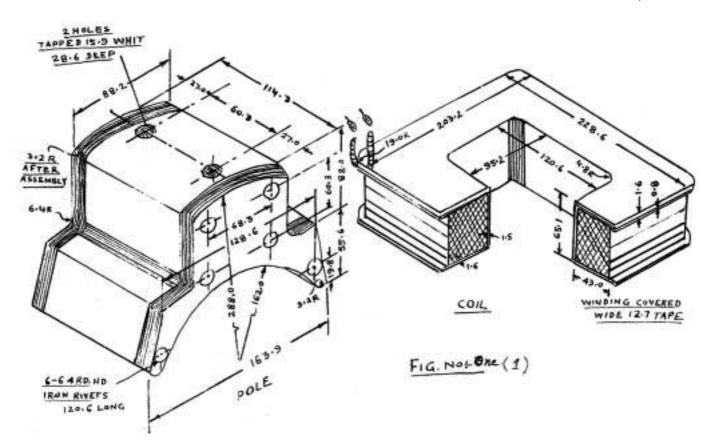
A 3 phase induction motor is to be reversed directly. Design and draw its schematic diagram for the control circuit and complete wiring diagram by providing separate push buttons for both the directions of rotation. Provide over load and short circuit protection to the motor.

- Q3 a. Draw and explain the diagram for anyone method of earthing with suitable necessary dimensions and material used.
  - b. Design and draw the bakelite sheet for the concealed conduit wiring, which should contain six plush switches and a fan regulator. 10,10

## OR

Draw a neat layout of a 66 kv/11kv substation. Show the essential equipment in the diagram.

Q4. Fig 1 shows the isometric view of a field pole core and shoe and isometric view in section of shunt field coil. Draw half sectional elevation assembly and full plan. All dimensions given in figure are in millimeter 12,8



S.B. Roll No.	

## PUBLICHEALTH ENGG. DRAWING

4th ExamCivil/5174/6751/Dec'11

Duration 4 Hrs. 100 Marks:

Note: Attempt any four questions. All questions carry equal marks.

- 1. Draw the cross section of a U shaped drain with its foundation.
- 2. Draw the cross section of a circular brick masonry sewer.
- 3. Draw the cross section of soak pit for 10 users.
- 4. Draw the cross section of an inspection chamber.
- 5. Draw the plan of bathroom showing positions of lavatory, bathtub, washbasin, taps and showers.
- 6. Draw the cross section a septic tank for 10 users.