Time Allowed: 1 Hour
Maximum Marks: 15

Name: ___________________________  ID. No. _____________  Sec. No. _____

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY.

1. Write your Name and I.D. number in the space provided above
2. No support material written or printed is allowed in the examination Hall/Room.
3. You may use only non-programmable calculators.
4. Do not use pencils for answering.
5. Answer all questions.
6. Marks are distributed as shown in the table below

<table>
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<tr>
<th>Q.No.</th>
<th>Marks Assigned</th>
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Instructor: Engr. Shameer A Koya
Initial: .............
Date: 25 / 10 / 2015
1.A. List *any four* functions of a motor control system.  

1.B. Define the following terms:  
   a. Control Component  
   b. Automatic Control  

1.C. Make a list of control components required to make the following motor control circuit.
2. A. List *any four* types of Circuit Breakers  

2. B. What is the use of Magnetic Blowout coil in a Contactor?  

2. C. What is a Control Relay? Explain how it can be used to control a lamp with the help of a diagram.
3. A. Explain working of a Solid State Contactor with the help of a neat diagram.(2.0 Marks)

3. B. List four types of Magnetic (Automatic) Motor Starters (1.0 Mark)

3. C. What is a Pilot control device? (1.0 Mark)
4. A. Explain operation of ‘Float Switch’ in an automatic water pumping system, with the help of a line diagram.  

(2.0 Marks)


(1.0 Mark)