

T35/T52/M07113/EE/20160712

Time : 3 Hours

Marks : 80

Instruction :

1. All Questions are Compulsory.
 2. Each Sub-question carry 5 marks.
 3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
 4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
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1. Solve any **four** sub-questions.
 - a) Explain thermocouple with neat sketch. 5
 - b) Explain Gas pressure switches. 5
 - c) Write a note on trouble shooting of complex circuit. 5
 - d) Write a note on pressure sensing devices. 5
 - e) Explain Three phase motors with schematic. 5

2. Solve any **four** sub-questions.
 - a) Write down different motor mounting characteristics. 5
 - b) Write a note on External motor protection. 5
 - c) Explain mechanical motor problems in detail. 5
 - d) Explain with neat sketch Natural draft cooling tower. 5
 - e) Write down different types of evaporator. Explain any one in short. 5

3. Solve any **four** sub-questions.
 - a) Explain the components of thermostatic expansion valve. 5
 - b) What are the different types of compressors? Explain reciprocating compressor in short. 5
 - c) Explain with neat sketch Automatic expansion valve. 5
 - d) Explain Random or off cycle defrost. 5
 - e) Write down different refrigeration accessories. Explain Drier with neat sketch. 5

4. Solve any **four** sub-questions.
- a) Write a note on parallel compressor systems. 5
 - b) Explain secondary fluid Refrigeration systems. 5
 - c) Explain Truck refrigeration systems. 5
 - d) Write the trouble shooting of high temperature applications. 5
 - e) Write down typical operating conditions for recirculated water systems. 5

