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REFRIGERATION AND AIR CONDITIONING 5th Exam/RAC/6853/Jun'2021 (For 2018 Batch Onwards)

Duration: 1.15Hrs. M.Marks:25

SECTION-A

Q1. Attempt any three questions.

3x5=15

- Explain Refrigeration and its applications.
- ii. What are unit of refrigeration? Calculate its value in Kcal/hr.
- iii. Explain working of rotary compressor.
- iv. What is the difference between wet bulb temp and dry bulb temp?
- v. Discuss the effect of sub-cooling on COP of a vapour compression refrigeration system. Would you desire large sub-cooling and why?
- vi. Explain the term "Effective temperature".
- vii. What are air refrigeration systems? Write its advantages and disadvantages?

SECTION-B

Q2. Attempt any one question.

1x10=10

- a. Draw the flow diagram of vapour compression refrigeration system and explain its working in detail.
- b. Draw a neat diagram of ammonia water absorption system and explain its working.
- c. What are the desirable properties of refrigerants?
- d. Discuss their importance in designing air conditioning system.