S.B. Roll No....

# AIR CONDITIONING ENGG 5<sup>th</sup> Exam/RAC/5412/May'18

#### **SECTION-B**

### Q2. Attempt any six questions.

6x5=30

- i. Explain humidification and dehumidification.
- ii. What is sensible heat load and latent heat load?
- iii. Discuss by pass factor.
- iv. What factors affect effective temperature?
- v. How do you prepare load estimation sheet?
- vi. What are the friction losses in ducts?
- vii. Explain one pipe and two pipe steam heating systems.
- viii. Write a note on dust collectors.
- ix. What do you mean by ventilation? Define its different types.

#### **SECTION-C**

## Q3. Attempt any three questions.

3x10=30

- a. Draw a neat diagram of split air conditioning system and explain working of different components in the circuit.
- b. What is a comfort chart? Draw the comfort chart and show the comfort zone in it.
- c. What are different types of heat load in buildings?
- d. Explain the different types of heating systems.
- e. What are different methods of air conditioning duct design? Explain them.