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Thermal and Automobile Engineering
Important 10mark Questions

Unit I

1. Explain the working of vapour absorption system of refrigeration with neat sketch.
2. A surface condenser condenses 17600kg of steam per hour. The steam pressure is 0.2 bar and its quality is 0.88. Cooling water enters at 40°C and leaves at 50°C. The condenser is made of 23 mm diameter tubes. If the velocity of cooling water in the tube is 1.8m/sec, Calculate the number of tubes used in the condenser. The temperature of condensate is 60°C.

Unit II

1. Explain the working of a four-stroke cycle diesel engine with neat sketches.
2. Explain the working of a four-stroke cycle petrol engine with simple sketches.

Unit III

1. Explain the working of AC mechanical fuel pump with a sketch.
2. Explain the working of cold starting and acceleration circuits of Solex carburettor with neat sketches.

Unit IV

1. Explain the construction and operation of a constant mesh gear box with neat sketches.
2. Explain the working of a multi-plate clutch with neat sketch.

Unit V

1. Explain the working of air assisted hydraulic braking system.
2. Briefly explain the battery coil ignition system for a four cylinder petrol engine with a line diagram.