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AT 8301 Spark Ignition Engines

Important 13mark questions

Unit I

1. Describe how a Carburettor supplies air-fuel mixture under different loading conditions to the engine.
2. With a load versus A/F ratio graph, present a brief. Outline about the air-fuel mixture requirements.

Unit II

1. Describe the working of multi point fuel injection system with a neat sketch.
2. Explain the working of distributorless ignition system with a neat sketch. Mention its merits over an ignition system with distributor.

Unit III

1. Explain the pent roof type of combustion chambers and its merits with neat sketches.
2. With $P - \theta$ diagram discuss in detail about stages of combustion in SI engine.

Unit IV

1. Explain the performance characteristics of SI engine fuelled with liquid fuel using neat sketches.
2. Discuss about utilisation of fuels on neat, blended, dual fuel, informed fuel and flexi fuel basis.

Unit V

1. Discuss about the positive crank case ventilation system. Elaborate on evaporative emission control methods with neat sketches.
2. Explain the measurement of HC by Flame Ionization Detector (FID) method using neat sketches.