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Propulsion-II

Important 13mark questions

Unit I

1. With neat sketch explain the concept of fuel-air mixing in parallel stream of scramjet engine.
2. Discuss the problems associated with supersonic combustion.

Unit II

1. Explain in detail about the major components of horizontal static test stand used in rocket test facilities.
2. Explain in detail about the ignition events and factors which affecting the ignition of propellant grains.

Unit III

1. With neat sketch explain the various types of solid rocket motor casing and their design consideration.
2. Explain in detail about the various factors affecting the burning rate of the solid propellant.

Unit IV

1. What are the peculiar problems associated with operation of cryogenic engines? Explain.
2. Explain about main combustion instabilities in liquid propellant rocket engines.

Unit V

1. Explain with neat diagram electro thermal thrusters.
2. With neat sketch explain the working principle of nuclear rocket engine.