**BSA11**

**Fourth Semester B. Tech Aeronautics Engineering**

**Examination Aug/Sep-2015**

**Introduction to Propulsion System**

**Time:-3Hours Max. Marks:-75**

**SECTION-A**

**Answer any five questions. (5\*5)**

1. Define Artist’s concept of a solar sail.
2. What do you mean by Skew Back Propeller?
3. Give a Statement about the Turbine Cooling.
4. Write a short note on Radial Equilibrium.
5. Define Modular propeller.
6. Write a Statement about the Velocity diagrams.
7. What do you mean by Static Dissipater?

 **SECTION-B**

 **Answer any two questions. (10\*2)**

1. Discuss Fuel Grades Available in Former Easter Bloc Countries.
2. Discuss Fuel System Icing Inhibitors (FSII).
3. Write a detail note on Principles of Passive Microwave Remote Sensing.

 **SECTION-C**

 **Answer any two questions. (15\*2)**

1. Discuss the basic principles of axial flow compressors.
2. Describe the Sampling Pattern Sampling Frequency (Minimum) Test Method Limits.
3. Describe Elementary Airfoil Theory.