

DEPARTMENT OF AEROSPACE ENGINEERING

IV B.TECH. VII Semester. SHORT TEST-1

ASOOO4: ROCKETS AND MISSILES. Date: 04-10-2012.

Time: 1 Hr.

Max. Marks: 30

Answer ALL Questions

1. List four topics of the Design document of an aerospace product.
2. Name four chapters that should form part of the Test plan document.
3. Give any two levels of testing for aerospace products.
4. Provide two reasons for testing an aerospace product.
5. What is the latest Indian satellite launched from abroad? What is the name of the rocket that put the spacecraft in the orbit?
6. Name four issues considered in concluding a test.
7. What are the two specific properties of materials essential for aerospace products?
8. Name two parts of rockets or missiles made of thermo-structural materials.
9. What is the commonly used alloy for high pressure gas bottles in rockets?
10. Name an aerospace product made from Kevlar fibre reinforced composite.
11. List any four types of aerodynamic controls used in air to air missiles.
12. Name any two types of target homing guidance systems used in surface to air missiles.
13. In which of the following cases the base drag is less?
(i) Thrusting phase of a rocket (ii) Non-thrusting phase of a rocket
14. List the parameters on which wave drag depends for a conical missile having double wedged wing.
15. Name two advantages of ogival nose over conical nose.