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Total No. of Pages : 02

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B.Tech.(Aerospace Engg.) (2012 Onwards) (Sem.-5) **AEROSPACE MATERIALS** Subject Code : ASPE-302 M.Code: 71836

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES :

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks 1. each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students 2. have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students 3. have to attempt any TWO questions.

SECTION-A

- 1. **Answer briefly :**
 - a) What is Pulforming?
- itstRanker.com b) What is injection molding?
 - c) What is blow molding?
 - d) What are whiskers?
 - e) Define malleability.
 - f) What is normalizing?
 - g) What is medium carbon steel?
 - h) What is cold shortness?
 - i) What is passivating?
 - i) What is intergranular corrosion?



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SECTION-B

- 2. What is SAE numbering system? Explain SAE 2330.
- 3. Discuss and explain the nomenclature of aluminium alloys.
- 4. Explain case hardening.
- 5. Name the methods of casting aluminium alloys. Discuss any one.
- 6. Name various applications of composites. Discuss any one in detail.

SECTION-C

- 7. What are the various metal joining processes? Explain any one permanent joining process.
- 8 Explain the manufacture of Titanium with the help of a flow chart. In how many ways www.FirstRanker.com hydrogen can contaminate titanium?
- 9. Discuss particulate composites in details.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.