



Enrolment No. _____

HASMUKH GOSWAMI COLLEGE OF ENGINEERING, VAHELAL

MID SEMESTER EXAMINATION, SEPTEMBER-2016

Subject Code: 2730806

Subject Name: MMC

Time: 10:00 TO 11:15

Date: 24/09/16

Sem: 3rd CAD/CAM

Total Marks: 30

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

QUE.1 (A) What are the important characteristics of the fibers? Discuss about boron carbide fibers. **5**

(B) What is composite material? Give the classification of composite materials. **5**

QUE.2 (A) Write a note on ceramic matrix composites. **5**

(B) Why fibers are preferred to other reinforcements? What are whiskers? **5**

OR

(B) Describe how fibers are fabricated using vapour deposition processes. **5**

QUE.3 (A) Explain Stress-strain behaviour for anisotropic materials. **5**

(B) Explain Biaxial strength criteria for an orthotropic materials. **5**

OR

(A) Describe natural and man-made composites. **5**

(B) Derive expressions for Tsai-Hill strength criteria. **5**

***** **ALL THE BEST** *****