



M.Tech II Semester Supplementary Examinations January/February 2019

PROCESSING OF COMPOSITE MATERIALS

(CAD/CAM)

(For students admitted in 2017 only)

Time: 3 hours

Max. Marks: 60

Answer all the questions

- 1 (a) Discuss ceramic matrix composites.
(b) State the applications of reinforced composites.

OR

- 2 Explain with a neat sketch the vacuum assisted RTM.

- 3 Explain the Hooke's law applied to two dimensional unidirectional lamina.

OR

- 4 Elucidate reduction of Hooke's law in three dimensions to two dimensions.

- 5 Discuss maximum stress failure theory strength ratio.

OR

- 6 Explain in detail Tsai – Wu failure theory.

- 7 Write short notes on:

- (a) Volume and mass fractions.
- (b) Density and void content.

OR

- 8 Discuss ultimate strength of a unidirectional lamina.

- 9 Explain design of a laminated composite.

OR

- 10 Discuss the failure criterion of a laminate.
