

- 14a (i) Discuss the method of producing oxide matrix composites (6)
(ii) Explain with a neat diagram the mechanism of formation of SiC matrix composite using RMI process (10)

OR

- 14b (i) Explain the CVI technique to produce C/C composites (8)
(ii) Explain the steps involved in slurry impregnation technique to fabricate SiO₂ based CMC (8)

- 15a (i) Derive the stress and Moment Resultants for laminates (16)

OR

- 15b (i) Derive a stress-strain relationship for a laminate where the fibers are oriented along the longitudinal direction. (16)

