

23. a) (i) Explain briefly the manufacturing process of Silicon carbide (SiC) fibre with neat sketch. (10)
- (ii) List the applications of Ceramic fibre. (4)
- (OR)**
- b) (i) Explain briefly the fibre formation process of Polybenzimidazole (PBI) with neat sketch. (10)
- (ii) List the properties of Spandex fibre. (4)
24. a) (i) Explain briefly the preparation and manufacturing process of Aluminium Oxide fibres with neat sketch. (10)
- (ii) Write short notes on Aluminium oxide composites. (4)
- (OR)**
- b) (i) Explain briefly the fibre formation process of Polyphenyl sulphide (PPS) with neat sketch. (9)
- (ii) Write short notes on application of Lead fibres in sound control and radiation shielding materials. (5)
25. a) (i) Explain briefly the Polystyrene based fibres with respect to preparation, properties and applications. (8)
- (ii) Explain briefly the preparation of microfibres. (6)
- (OR)**
- b) (i) Explain briefly the manufacturing process of silica fibres with neat sketch. (7)
- (ii) Write short notes on Poly Lactic Acid (PLA). (7)
