

(OR)

- b) (i) Explain briefly the application of nonwovens in health and hygiene sector. (8)
- (ii) Explain briefly the construction details of diaper with neat sketch (6)

22. a) (i) Explain briefly the Sutures w.r.t types, property requirements, fibres used and its structure. (8)
- (ii) Write short notes on drug delivery systems. (6)

(OR)

- b) (i) Explain briefly the biomaterial in Cardiovascular applications w.r.t functions, property requirement, material and structure. (7)
- (ii) Explain briefly the biomaterial in Orthopaedic applications w.r.t functions, property requirement, material and structure. (7)

23. a) (i) Explain briefly the Ligament Prostheses w.r.t functions, property requirements, material and structure. (9)
- (ii) Write short notes on mesh grafts. (5)

(OR)

- b) (i) Elaborate the applications of textiles in various extracorporeal devices. (10)
- (ii) Write short notes on Resorbable Polymers. (4)

24. a) (i) Explain briefly the various stages of wound healing process with neat sketches. (10)
- (ii) List the property requirements of Ideal wound dressing materials. (4)

(OR)

- b) Explain briefly the various wound dressing materials used in wound healing process.

25. a) Explain briefly the application of phase change materials in medical field.

(OR)

- b) (i) Explain briefly the application of smart medical textiles for children monitoring. (10)

(ii) Write short notes on application of specialty fibres in medical textiles.

(4)
