

- 1) Question No. 1 is **Compulsory**.
- 2) Attempt any **four** questions out of remaining **six** questions.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data wherever necessary.
- 5) Draw sketches / diagrams wherever necessary.
- 6) Use legible handwriting . Use blue / black ink.

Explain using suitable diagram normal human gait cycle. Also mention [20]
the importance of each stage in the cycle.

Explain using block diagram of Artificial Kidney. [10]

Explain using block diagram of Heart Lung machine. [10]

Explain one spinal orthotic appliance, indicate conditions, when it is to be used and when it works. [10]

Explain different transducers used in P & O [10]

Explain Below elbow orthosis using suitable diagram. [10]

Explain Above knee prosthesis using suitable diagram. [10]

Explain the different kinds of levers existing in our body and site one example for each type of lever. [20]

Write short notes on : [20]

(i) Cardiac assist device.

(ii) Hand splints.

(iii) Jaipur foot.

(iv) Plastics in P & O.

Write short notes on : [20]

(i) Corrective braces.

(ii) Cervical collar.

(iii) Heart Valves.

(iv) Patient Rehabilitation.