

22545

12425

03 Hours / 70 Marks

Seat No.

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- Instructions –*
- (1) All Questions are *Compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following 10
- a) Define the term 'Rehabilitation'
 - b) Define Selspot
 - c) Define Prosthesis
 - d) State the two functions of mobility aids.
 - e) State the application of foot switches.
 - f) Name the type of orthosis that encircles the neck and supports the chin and back of the head only.
 - g) Identify the advanced rehabilitation technique which provides multi-axial and intelligent movement for hand.

P.T.O.

- 2. Attempt any THREE of the following** **12**
- a) Give the significance of intelligent prosthetic knee.
 - b) List various phases of gait cycle.
 - c) Explain the concept of Jaipur foot in detail.
 - d) Enlist the parts of wheel-chair.
- 3. Attempt any THREE of the following** **12**
- a) Draw a sketch of self alighting orthotic knee joint.
 - b) Explain sensory rehabilitation in detail.
 - c) Describe the concept of Delivery of 'Rehabilitation Care.'
 - d) Draw a labelled diagram of Tripods and parallel bar.
- 4. Attempt any THREE of the following** **12**
- a) Suggest on Orthosis to protect and support the muscular and bony structures of your spine. Describe it with neat diagram.
 - b) Classify orthosis on the basis of function and anatomical area.
 - c) Explain the structure and application of walking stick and crutches.
 - d) State the need of Self alighting orthotic knee joint.
 - e) Draw a labelled diagram of Hierarchically controlled prosthetic hand.
- 5. Attempt any TWO of the following** **12**
- a) Enlist any six rehabilitation team members and give one function of each member.
 - b) Name the device used to measure joint angles. Explain joint angle measurement system in detail.
 - c) A person is having disability related to upper limbs. Suggest a suitable prosthesis and explain it in detail.

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Marks

6. Attempt any TWO of the following

12

- a) Explain design of powered wheel chair.
 - b) Describe anatomical lever system with suitable diagram.
 - c) Describe the concept of FES.
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