

[LH 0815]

AUGUST 2015

Sub. Code: 2435

**BACHELOR IN PROTHETICS AND ORTHOTICS**

**THIRD YEAR**

**PAPER V – ORTHOTICS SCIENCE - III**

*Q.P. Code: 802435*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Explain about finger driven flexor hinge splint fabrication procedure.
2. Write any three special assistive devices.
3. Write the influences of Functional Electrical Stimulator in upper extremity orthosis.

**II. Write notes on:**

**(8 x 5 = 40)**

1. General principles of upper extremity orthosis.
2. Indication, functions and bio-mechanics of clavicular orthosis.
3. What is spring swivel thumb?
4. Flexion assist metacarpophalangeal (MCP) dynamic splint.
5. How to make T- bar for a feeder?
6. Assistive device – button hook.
7. What is Wilmer shoulder orthosis?
8. Fracture braces of upper limb.

**III. Short answers on:**

**(10 x 3 = 30)**

1. What is C- bar?
2. What is Thomas suspension splint?
3. What is claw hand?
4. What is tenodesis splint?
5. What is thumb post?
6. Uses of static upper limb orthosis.
7. Bio-mechanics of orthosis.
8. What is plate guard?
9. What is tennis elbow?
10. What is ulnar dysplasia?

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