

[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?

[LJ 0816]

AUGUST 2016

Sub. Code :2455

B.Sc. PROSTHETICS AND ORTHOTICS
(New Syllabus 2013-2014)

THIRD YEAR

PAPER V – ORTHOTICS SCIENCE – III

Q.P. Code: 802455

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on: (3 x 10 = 30)

1. What are slings? Explain different types of sling with their prescription criteria.
2. Write biomechanical principles of hand splinting.
3. Describe Objective, fabrication and positioning of balance forearm orthosis.

II. Write notes on: (8 x 5 = 40)

1. Arches of Hand.
2. Anti deformity position.
3. Orthotic management for arthritic hand.
4. Deformities in burn.
5. Different types of pinch.
6. Different types of upper extremity orthosis with examples.
7. Indication and positioning of Airplane orthosis.
8. Volar wrist flexion control orthosis.

III. Short answers on: (10 x 3 = 30)

1. Dynamic wrist hand orthosis for median nerve injury.
2. Swan neck deformity and its orthotic management.
3. Hypothenar bar.
4. Opponens bar.
5. Tennis elbow splint.
6. Claw hand.
7. Prop.
8. Thumb post.
9. Passive prehension orthosis.
10. Thumb Spica.

[LK 0217]

FEBRUARY 2017

Sub. Code :2435

**B.Sc. PROSTHETICS 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. Describe in detail the types of hand grasp and prehension.
2. Describe briefly about Wrist Driven Flexor hinge splint.
3. Write down the different orthotic management of Claw hand deformity.

II. Write notes on: **(8 x 5 = 40)**

1. PAN cake splint.
2. Classify the upper extremity splinting.
3. Write a note on Long opponens hand splint.
4. Functional Hand Splint.
5. Intrinsic Minus Position.
6. Mallet finger and its management.
7. Carpal tunnel syndrome and its orthotic management.
8. Lateral Epicondylitis and its orthotic management.

III. Short answers on: **(10 x 3 = 30)**

1. Static WHO.
2. Boutonniere deformity.
3. Lumbrical Bar.
4. C-Bar.
5. L.P. Joint stabilizer.
6. Explain in brief intrinsic and extrinsic muscles of the hand.
7. Write down the functions of Outtrigger.
8. Draw a leveled diagram showing different sections of a palmar piece.
9. Short opponens hand splint.
10. FES.

[LL 0817]

AUGUST 2017

Sub. Code :2435

BACHELOR IN PROSTHETICS & 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 FES 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 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?

[LN 0818]

AUGUST 2018

Sub. Code: 2435

B.Sc. PROSTHETICS & 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. Categories of upper limb orthosis and give two examples of each category.
2. What is feeder? How to install a ball bearing supportive type feeder?
3. How to fit a locking joint functional arm brace with elastic flexion assist?

II. Write notes on:

(8 x 5 = 40)

1. Wrist mobilization orthosis.
2. Indication and functions of arm sling or shoulder orthosis.
3. S.E.W.O (shoulder abduction) indication and functions.
4. Elbow wrist forearm orthosis (sugar- tong).
5. Assistive device – button hook.
6. Dynamic MCP extension assists orthosis.
7. Short opponens splints.
8. P.S.E.W.H.O. functions with diagram.

III. Short answers on:

(10 x 3 = 30)

1. Tenodesis orthosis indication.
2. What is swan neck ring?
3. MCP mobilization orthosis function.
4. What is ulnar tunnel syndrome?
5. What is schenck splint?
6. Finger orthosis indications.
7. What is functional position?
8. What is tennis elbow?
9. Advantages of functional orthosis.
10. What is smith fracture?

[LP 0819]

AUGUST 2019

Sub. Code: 2435

B.Sc. PROSTHETICS & 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 all attachments of long opponents splint.
2. Write any three special assistive devices.
3. Write about: (a) mobile arm support (b) functional elbow orthosis.

II. Write notes on:

(8 x 5 = 40)

1. Static hand orthosis with butterfly writing clip.
2. What is Wilmer shoulder orthosis?
3. Shoulder Elbow Wrist orthosis indication and functions?
4. Thumb opponents splint.
5. Functional position resting hand splint.
6. Carpal tunnel syndrome and its orthotic management.
7. General principles of upper extremity orthosis.
8. Indication and functions of hand orthosis?

III. Short answers on:

(10 x 3 = 30)

1. What is palmar pocket?
2. What is golfer's elbow?
3. Knuckle bender.
4. Cock up splint.
5. What is brachial plexus injury?
6. What is C- bar?
7. Aeroplane splint.
8. What is smith fracture?
9. What is tenodesis splint?
10. What is the role of FES in upper limb orthosis?
