

(LN 951)

AUGUST 2018

Sub. Code: 1951

**M.Ch. – HAND SURGERY**

**Paper I – BASIC SCIENCES**

*Q.P.Code: 181951*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss the ligamentous anatomy of the wrist. Describe the biomechanical features providing the stability of the wrist.
2. Describe the anatomy of the Brachial plexus. Discuss the various types of injuries to the brachial plexus.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Tourniquet.
2. Volar plate.
3. Triangular fibrocartilaginous complex.
4. Brewerton view.
5. Sterling Bunnell.
6. Fibrillation potential.
7. Blood supply of the scaphoid.
8. Horner's syndrome.
9. Growth plate.
10. Supracondyloid process.

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(LP 951)

AUGUST 2019

Sub. Code: 1951

**M.Ch. – HAND SURGERY**

**Paper I – BASIC SCIENCES**

*Q.P. Code: 181951*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss the *in utero* development of the human hand. Briefly mention the salient features of the Oberg Manske Tonkin (OMT) classification of congenital differences of the hand.
2. Describe the anatomy of the Distal Radio Ulnar Joint (DRUJ). Discuss the biomechanics of the Triangular Fibrocartilagenous complex (TFCC).

**II. Write notes on:**

**(10 x 7 = 70)**

1. Bier's block.
2. Ligament Box Complex.
3. Scapholunate Interosseous ligament.
4. Robert's view.
5. Paul Brand.
6. Somatosensory Evoked Potentials (SSEP).
7. Martin Gruber anastomosis.
8. Nail bed.
9. Wallerian degeneration.
10. Beak ligament.

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(MCH 0821)

AUGUST 2021

Sub. Code: 1951

**M.Ch. – HAND SURGERY**

**Paper I – BASIC SCIENCES**

*Q.P. Code: 181951*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss the *microscopic structure* of the nerve. What are the salient features of the regeneration of an injured nerve.
2. Describe the anatomy of the extensor mechanism of the digit. Discuss the biomechanics of the development of boutonniere deformity.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Sharpey's fibres.
2. Volar plate.
3. Arcade of struthers.
4. True lateral view of wrist.
5. Harold Kleinert.
6. Nerve growth factors.
7. Pronator quadrates.
8. 1,2 Intercompartmental Supraretinacular artery (ICSRA).
9. Coronoid process.
10. Hook of hamate.

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**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERISYT**

**(MCH 0822)**

**AUGUST 2022**

**Sub. Code: 1951**

**M.Ch. – HAND SURGERY**

**Paper I – BASIC SCIENCES**

***Q.P. Code: 181951***

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Describe the arterial supply of the bones of the hand. Discuss the various intra-osseous vascular patterns of the Lunate bone and its clinical implications.
2. Describe the innervation of the intrinsic musculature of the hand. Elaborate the patho-mechanics of the claw hand deformity.

**II .Write notes on:**

**(10 x 7 = 70)**

1. Gantzer's muscle.
2. Tourni-Cot<sup>®</sup>.
3. Kazuteru Doi.
4. Bands of Fontana.
5. Vincula Tendinea.
6. Cervical Rib.
7. Ziter's view.
8. Myofibroblast.
9. Transverse retinacular ligament.
10. Myelin sheath.

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