

APRIL - 2001

[KD 043]

Sub. Code : 1604

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

Branch III — Plastic Surgery

(Revised Regulations)

**Paper IV — PLASTIC SURGERY AS APPLIED TO
ALLIED SCIENCES AND RECENT ADVANCES IN
PLASTIC SURGERY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the various methods of reconstruction of breast following mastectomy. (25)
2. Discuss in detail the functional muscle transfers in plastic surgery. (25)
3. Write short notes on : (5 × 10 = 50)
 - (a) Composite Flap
 - (b) Multi organ failure in burns
 - (c) Computers in plastic surgery
 - (d) Endoscopic surgery in plastic surgery
 - (e) Chemical peeling.

NOVEMBER - 2001

[KE 043]

Sub. Code : 1604

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch III — Plastic Surgery

**Paper IV — PLASTIC SURGERY AS APPLIED TO
ALLIED SCIENCES AND RECENT ADVANCES IN
PLASTIC SURGERY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Discuss indications, limitations and technique of Liposuction. (25)
2. How will you organise a new 20 bed burns unit? Discuss in detail. (25)
3. Write briefly on : (5 × 10 = 50)
 - (a) Hair transplants
 - (b) Adepofascial flaps
 - (c) Gracilis myocutaneous flap
 - (d) Alveolar bone grafts
 - (e) Protruding premaxilla.

MARCH - 2002

[KG 043]

Sub. Code : 1804

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch III — Plastic Surgery

**Paper IV — PLASTIC SURGERY AS APPLIED TO
ALLIED SCIENCES AND RECENT ADVANCES IN
PLASTIC SURGERY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the evolution of surgical treatment for chronic Lymphoedema of Extremities. (25)
2. Discuss the scope of Cranio-Facial surgery in developing countries. (25)
3. Write brief notes on : (5 × 10 = 50)
 - (a) Organisation of Burns unit in a District Hospital.
 - (b) Use of MRI in Plastic Surgery.
 - (c) Ultrasonography in Lymphoedema.
 - (d) Vaso-Epididymal Anastomosis.
 - (e) Anaemia in Thermal Injuries.

SEPTEMBER - 2002

[KH 043]

Sub. Code : 1604

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch III — Plastic Surgery

**Paper IV — PLASTIC SURGERY AS APPLIED TO
ALLIED SCIENCES AND RECENT ADVANCES IN
PLASTIC SURGERY**

Time : Three hours

Maximum 100 marks

Answer ALL questions

1. What do you understand by ultrasound-assisted lipoplasty, suction-assisted lipoplasty and external ultrasound assistance in liposuction? Describe similarities and differences between ultrasound assisted lipoplasty and suction assisted lipoplasty. Describe the operative technique of ultrasound assisted lipoplasty in brief. (25)

2. Describe the recent advances in the diagnosis and management of craniomaxillofacial fractures. What do you understand by Panfacial injuries? How do you manage Panfacial injuries? (25)

3 Write briefly on (5 × 10 = 50)

(a) Endoscopically assisted plastic surgical procedures.

(b) Sphincter pharyngoplasty

(c) Chemical face peeling

(d) 3-dimensional imaging

(e) Calvarial bone graft.

APRIL - 2004

[KK 043]

Sub. Code : 1604

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch III — Plastic Surgery

**Paper IV — PLASTIC SURGERY AS APPLIED TO
ALLIED SCIENCES AND RECENT ADVANCES
IN PLASTIC SURGERY**

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

A. Essay :

(2 × 15 = 30)

(1) Describe various speech problems in cleft lip and palate cases. What are the causes of these problems? Describe methods of treatment of speech problems in cleft cases.

(2) Describe etiology and pathophysiology of obesity. Mention indications / patient selection for surgery for obesity. Discuss various obesity surgery procedures.

B. Write short notes on :

(10 × 5 = 50)

- (1) Hypothermia during microvascular surgery.
- (2) Patient Controlled Analgesia (PCA).
- (3) Low-molecular weight heparin.
- (4) Non-healing ulcer.
- (5) Recent advances in treatment of keloid.
- (6) Skin substitutes.
- (7) Jumping cross finger flap.
- (8) Ear framework for reconstruction of ear.
- (9) Negative suction dressing.
- (10) Endoscopic plastic surgery procedures.

AUGUST - 2004

[KL 043]

Sub. Code : 1604

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch III — Plastic Surgery

**Paper IV — PLASTIC SURGERY AS APPLIED TO
ALLIED SCIENCES AND RECENT ADVANCES IN
PLASTIC SURGERY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I Essay : (2 × 15 = 30)

(1) Describe the methods of reconstruction of lower 1/3rd of the leg following road traffic accident resulting in exposed tendoachillies and bones.

(2) Describe recent trends in evaluation and management of bilateral cleft lip and palate child with severe protruding premaxilla.

II. Short notes : (10 × 5 = 50)

- (a) Classify haemangiomas**
- (b) Post burn axillary contractures**
- (c) Mastopexy**
- (d) Classify facial clefts**
- (e) Supra malleolar flaps**
- (f) Implant materials**
- (g) Local anaesthetics in Plastic Surgery**
- (h) Management of Giant hairy naevus on the face**
 - (i) Laser surgery**
 - (j) Classify types of acro cephalo syndactyly and describe pefeiffers syndrome.**

FEBRUARY - 2005

[KM 043]

Sub. Code : 1604

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch III — Plastic Surgery

**Paper IV — PLASTIC SURGERY AS APPLIED TO
ALLIED SCIENCES AND RECENT ADVANCES IN
PLASTIC SURGERY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay : (2 × 15 = 30)

**(1) Describe clinical and electrophysiological
assessment following repair of injured peripheral nerve.
Discuss post-operative management (with special
reference to physiotherapy) in cases of nerve injury.**

**(2) Describe etiology, pathogenesis, diagnosis and
management of Acute Respiratory Distress Syndrome
(ARDS).**

II. Write short notes on : (10 × 5 = 50)

- (a) Nutritional implications of altered metabolism
in sepsis.**
- (b) Body Mass Index (BMI)**
- (c) Macroglossia**
- (d) Endoscopy assisted rejuvenation of face**
- (e) Alar base excision**
- (f) Tissue Engineering**
- (g) Recent advances in surgery for longstanding
facial nerve palsy**
- (h) Pericranial flap**
- (i) Marginal mandibular nerve palsy**
- (j) Diode laser.**

FEBRUARY - 2006

[KO 043]

Sub. Code : 1604

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch III — Plastic Surgery

Paper IV — PLASTIC SURGERY AS APPLIED TO
ALLIED SCIENCES AND RECENT ADVANCES IN
PLASTIC SURGERY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay :

(2 × 15 = 30)

(1) Discuss in detail the various modalities available for evaluating the Velopharyngeal portal. How would you match the pharyngoplasty to the defect?

(2) What is Macro and Micro reimplantation? What are the indications and contraindications for reimplantation? Discuss in detail the steps in reimplantation of the right index finger through Zone II.

II. Write short note on : (10 × 5 = 50)

(a) Karapandziec flap

(b) Mohs chemosurgery

(c) Meshed graft

(d) Malignant Hyperthermia

(e) Brachytherapy

(f) Necrotizing fasciitis

(g) Advantages and disadvantages of ultrasound assisted liposuction

(h) Compartment syndrome diagnosis, complications and management

(i) Sural artery flap

(j) Blow out fracture of the orbit.

AUGUST - 2006

[KP 043]

Sub. Code : 1604

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch III — Plastic Surgery

**Paper IV — PLASTIC SURGERY AS APPLIED TO
ALLIED SCIENCES AND RECENT ADVANCES IN
PLASTIC SURGERY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay :

(1) Describe the aetiology and classifications of loss of thumb. Mention the various techniques available for thumb reconstruction and describe in detail the management of traumatic loss of thumb through proximal third of first metacarpal. (20)

(2) What are the causes of failure of free flap? Discuss the measures that can be taken to prevent it. How will you manage a failing free flap? (15)

(3) Discuss the role of plastic surgeon in cases of diabetic foot. (15)

II. Short notes : (6 × 5 = 30)

(a) Lateral cephalogram.

(b) Foetal wound healing

(c) Blood supply and use of flexor digitorum brevis of foot in reconstructive surgery

(d) Boutonniere deformity of finger

(e) Use of intestine in plastic surgery

(f) Washio flap.

FEBRUARY - 2007

[KQ 043]

Sub. Code : 1604

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

**Branch III — Plastic Surgery and Reconstruction
Surgery**

**Paper IV — PLASTIC SURGERY AS APPLIED TO
ALLIED SCIENCES AND RECENT ADVANCES IN
PLASTIC SURGERY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay :

- 1. Describe the role of Orthodontia and distraction osteogenesis in cleft and palate. (20)**
- 2. Enumerate different flaps used in reconstruction of Cancer Cheek and describe Narayanan's flap. (15)**
- 3. Describe the role of Fillers and implants in plastic surgery. (15)**

II. Short notes :

(6 × 5 = 30)

- 1. Water's View**
- 2. Foetal Surgery**
- 3. Implants**
- 4. Rigid Fixation**
- 5. Telecanthus**
- 6. Heparin in Burns.**

August-2007

[KR 043]

Sub. Code : 1604

M.Ch. DEGREE EXAMINATION.

Higher Specialities

(Revised Regulations)

**Branch III — Plastic Surgery and Reconstruction
Surgery**

**Paper IV — PLASTIC SURGERY AS APPLIED TO
ALLIED SCIENCES AND RECENT ADVANCES IN
PLASTIC SURGERY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay questions.

1. Discuss the Role of Tissue Expander. (20)

**2. Describe male pattern baldness and its
management. (15)**

**3. What are the causes of lymphoedema? Discuss the
management of filarial lymphoedema of Lower Limb.**

(15)

II. Write Short notes on :

(30)

(a) Allen's test

(b) Bone substitutes

(c) Autologous blood transfusion

(d) Embolization in vascular malformations

(e) Methods of monitoring flap viability

(f) Nerve conduits.

August 2008

[KT 043]

Sub. Code: 1604

M.Ch. DEGREE EXAMINATION

**(Higher Specialities)
(Revised Regulations)**

Branch III – Plastic & Reconstructive Surgery

**Paper IV – PLASTIC SURGERY AS APPLIED TO ALLIED
SCIENCES AND RECENT ADVANCES IN
PLASTIC SURGERY**

Q.P. Code: 181604

Time: Three hours

Maximum: 100 Marks

ANSWER ALL QUESTIONS

Draw suitable diagrams wherever necessary.

I. Essays: (2 x 20 = 40)

1. How will you organize a full fledged trauma care centre.
2. Discuss indications and contraindications of limb replantation. Give steps of replantation of hand through palm.

II. Write short notes on: (10 X 6 = 60)

1. Mixed parotid tumour.
 2. Tissue bank.
 3. Super Selective embolization.
 4. Management of MWL patients after bariatric surgery.
 5. Keloid-recent advances.
 6. Chemical peeling.
 7. Endoscopes in plastic surgery.
 8. Distraction osteogenesis.
 9. Finger prosthesis.
 10. Prognathism.
-

August 2009

[KV 043]

Sub. Code: 1604

MASTER OF CHIRURGIAE (M.Ch.) DEGREE EXAMINATIONS

(Super Specialities)

Branch III – Plastic & Reconstructive Surgery

(Revised Regulations)

**Paper IV – PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES
AND RECENT ADVANCES IN PLASTIC SURGERY**

Q.P. Code: 181604

Time: Three hours

Maximum: 100 Marks

Answer ALL questions

Draw suitable diagrams wherever necessary.

I. Essays:

(2 x 20 = 40)

1. Describe about pre fabrication flaps.
2. Narrate growth factors in wound healing.

II. Write short notes on:

(10 x 6 = 60)

1. Perforator based flaps.
2. Nerve gap reconstruction.
3. Pan facial fracture.
4. Cleft lip nose.
5. Dynamic procedures in fascial palsy.
6. Instep flap.
7. Gynaecomastia.
8. Calvarial bone graft.
9. Hydradenitis suppurativa.
10. N.H. Antia.

February 2011

[KY 043]

Sub. Code: 1604

MASTER OF CHIRURGIAE (M.Ch.) DEGREE EXAMINATIONS

(Super Specialities)

Branch III – Plastic & Reconstructive Surgery

(Revised Regulations)

Common to all Candidates

**Paper IV – PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES
AND RECENT ADVANCES IN PLASTIC SURGERY**

Q.P. Code: 181604

Time: Three hours

Maximum: 100 Marks

Answer ALL questions

Draw suitable diagrams wherever necessary.

I. Essays:

(2 x 20 = 40)

1. Discuss in detail the clinical uses of digital photography and computers in plastic surgery.
2. Describe the etiopathogenesis of obesity, selection of patient and various techniques of liposuction.

II. Write short notes on:

(10 x 6 = 60)

1. Breast implants.
2. Facial rejuvenation.
3. Nerve repair with gap.
4. Foetal surgery.
5. Endoscopic plastic surgery.
6. Finger tip injuries.
7. Penile reconstruction.
8. Wrap around flap.
9. Face transplant.
10. Scar revision.

August 2011

[KZ 043]

Sub. Code: 1604

**MASTER OF CHIRURGIAE (M.Ch.) DEGREE EXAMINATION
(SUPER SPECIALITIES)**

BRANCH III – PLASTIC & RECONSTRUCTIVE SURGERY

**PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES
AND RECENT ADVANCES IN PLASTIC SURGERY**

Q.P. Code: 181604

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

**Pages Time Marks
(Max.) (Max.) (Max.)**

1. How do you classify abnormal fat deposition in the body?

What are the considerations in management of obesity involving gluteal and thigh regions.

11 35 15

2. What are the materials available for bone loss? What is the decision making process between natural bone and bone substitutes in face bone loss.

11 35 15

II. Write notes on :

1. Compare chemical peeling and lasers in facial rejuvenation.	4	10	7
2. Biofilms for wounds.	4	10	7
3. Surgery for vitiligo.	4	10	7
4. Imaging advances in facial surgery.	4	10	7
5. Ropivacaine; compare with Lignocaine.	4	10	7
6. Non surgical fat reduction.	4	10	7
7. Stem cells in plastic surgery.	4	10	7
8. Nanocrystalline silver.	4	10	7
9. Advances in breast implants.	4	10	7
10. Nagata's method of ear reconstruction.	4	10	7

[LB 043]

AUGUST 2012

Sub. Code: 1604

M.Ch – PLASTIC & RECONSTRUCTIVE SURGERY

Paper – IV PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES AND
RECENT ADVANCES IN PLASTIC SURGERY

Q.P. Code: 181604

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages (Max.)	Time (Max.)	Marks (Max.)
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- | | | | |
|---|----|----|----|
| 1. Discuss sign and symptoms of Klippel – Trenaunay Syndrome.
Discuss the necessary radiological workup and treatment of
patient with Klippel – Trenaunay syndrome. | 16 | 35 | 15 |
| 2. Discuss closure of excised burn wound with semi permanent
and permanent skin substitutes. | 16 | 35 | 15 |

II. Write notes on :

- | | | | |
|---|---|----|---|
| 1. Facial artery musculomucosal (FAMM) flap. | 4 | 10 | 7 |
| 2. Follicular Unit Extraction (FUE) versus Follicular Unit
Transplantation (FUT). | 4 | 10 | 7 |
| 3. Free flap reexploration: indication, treatment. | 4 | 10 | 7 |
| 4. APTOS(anti-ptosis) sutures. | 4 | 10 | 7 |
| 5. Reverse posterior interosseous flap and its composite flap. | 4 | 10 | 7 |
| 6. Botulinum toxin. | 4 | 10 | 7 |
| 7. Autologous fat transfer for facial recontouring. | 4 | 10 | 7 |
| 8. Propanolol for hemangiomas. | 4 | 10 | 7 |
| 9. CT angiography of the lower extremities versus
conventional catheter angiography. | 4 | 10 | 7 |
| 10. Lymphatic microsurgery for the treatment of lymphedema. | 4 | 10 | 7 |

(LD 043)

AUGUST 2013

Sub. Code:1604

M.Ch. – PLASTIC & RECONSTRUCTIVE SURGERY
Paper – IV PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES
AND RECENT ADVANCES IN PLASTIC SURGERY
Q.P.Code: 181604

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Describe the phenomenon of wound healing in skin – phases, factors influencing epithelization and contraction and after effects of healing.
2. Describe etiology and pathophysiology of obesity. Discuss various procedures of abdominoplasty.

II. Write notes on:

(10X7=70)

1. Keloid – recent advances.
2. Chemical peeling.
3. Distraction osteogenesis.
4. Prognathism.
5. Lateral cephalogram.
6. Use of intestine in plastic surgery.
7. Mastopexy.
8. Supra malleolar flaps.
9. Omental flaps.
10. Telecanthus.

M.Ch. – PLASTIC & RECONSTRUCTIVE SURGERY
Paper – IV PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES
AND RECENT ADVANCES IN PLASTIC SURGERY

Q.P.Code: 181604

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Discuss autologous fat harvesting, processing, reinjection, and storage. Discuss autologous fat grafting to the breast: safety and efficacy.
2. What should define a "perforator flap"? Discuss vascular anatomy of the anterolateral thigh flap. Is primary thinning of the anterolateral thigh flap recommended?

II. Write notes on:

(10X7=70)

1. Define supermicrosurgery. Discuss role of supermicrosurgery in plastic surgery.
2. Discuss promotion of epithelialization and wound closure using epidermal cell suspension.
3. Robot-Assisted Plastic Surgery.
4. Describe free style perforator flap. Discuss free style flap in reconstruction of lower limb.
5. Define large volume liposuction (megaliposuction). Discuss general practice guidelines for megaliposuction.
6. Imaging in brachial plexus injuries.
7. Discuss current options for bridging the gap in peripheral nerves.
8. Discuss microvascular anastomotic techniques. Describe anastomotic coupling device.
9. Hyperbaric oxygen therapy for wound healing and limb salvage
10. Discuss techniques to prevent cartilage warping. Discuss diced cartilage graft.

[LF 043]

AUGUST 2014

Sub. Code: 1604

M.Ch. – PLASTIC AND RECONSTRUCTIVE SURGERY
Paper IV – PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES
AND RECENT ADVANCES IN PLASTIC SURGERY

Q. P. Code: 181604

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions in the same order.

I. Elaborate on:

(2 x 15 = 30)

1. What are the principles of Facelift surgery?

Write in detail about Extended SMAS technique in facial rejuvenation.

2. What are the goals and options for complete Phallic reconstruction?

Write in detail about Radial Forearm flap in phallic reconstruction.

II. Write notes on:

(10 x 7 = 70)

1. Endoscopic flap harvest.

2. Physiological operations for lymphoedema.

3. Omental flap for breast reconstruction.

4. Obstetric brachial plexus palsy – mechanism of injury, clinical presentation and management strategy.

5. Skin bank and storage.

6. What are the types of Velopharyngeal dysfunction?

How will you evaluate a case of Velopharyngeal dysfunction?

7. Marginal mandibular nerve palsy.

8. Stem cells in plastic surgery.

9. Temporo-parietal fascial flap.

10. Anastomotic devices in microvascular surgery.

[LH 043]

AUGUST 2015

Sub. Code: 1604

M.Ch. – PLASTIC & RECONSTRUCTIVE SURGERY
PAPER IV – PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES
AND RECENT ADVANCES IN PLASTIC SURGERY

Q.P. Code: 181604

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. What are the various methods of monitoring of free flaps?
Enumerate the causes of flap failure.
2. Describe the anatomy of SMAS. What are the signs of ageing face?
Describe technique of facelift.

II. Write notes on :

(10 x 7 = 70)

1. Recent trends in hair transplantation
2. Complex decongestive therapy in lymphedema.
3. Lateral supra malleolar flap.
4. Calf plasty.
5. Derm abrasion.
6. Pressure sore.
7. Robotics in plastic surgery.
8. Principles of face transplantation.
9. Negative pressure wound therapy.
10. Medial Plantar Artery Flap.

M.Ch. – PLASTIC & RECONSTRUCTIVE SURGERY

**Paper IV – PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES
AND RECENT ADVANCES IN PLASTIC SURGERY**

Q.P.Code: 181604

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Describe about Pan Facial fracture and its management. Mention the recent advances in the diagnosis and management of facial bone fracture.
2. Describe about the anatomy of Temporomandibular joint. Describe the aetiology, clinical features and management of Temporomandibular joint Ankylosis.

II. Write notes on: **(10 x 7 = 70)**

1. Composite Flap.
2. Protrusio premaxilla.
3. Follicular unit extraction versus Follicular unit transplantation.
4. Sphincter Pharyngoplasty.
5. Autologous Fat transfer.
6. Constriction ring syndrome.
7. Radial Club hand.
8. Sensory nerve transfer.
9. Endoscopic carpal tunnel release.
10. Le fort I Osteotomy.

M.Ch. – PLASTIC & RECONSTRUCTIVE SURGERY

**Paper IV – PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES
AND RECENT ADVANCES IN PLASTIC SURGERY**

Q.P.Code: 181604

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe classification of injuries of Thumb and various options for thumb reconstruction. Discuss in detail about thumb re-plantation.
2. Describe pathological anatomy of cleft lip nose. Discuss in detail primary and Secondary rhinoplasty for cleft lip nose correction.

II. Write notes on:

(10 x 7 = 70)

1. Wet technique in Liposuction.
2. Washio flap.
3. Role of fillers in plastic surgery.
4. Allen's test.
5. Prognathism.
6. Management of massive weight loss patient following bariatric surgery.
7. Prefabrication flap.
8. Non Surgical Body contouring.
9. Management of Hemifacial microsomia.
10. Ptosis correction.

(LL 043)

AUGUST 2017

Sub. Code:1604

M.Ch. – PLASTIC & RECONSTRUCTIVE SURGERY

**Paper IV – PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES
AND RECENT ADVANCES IN PLASTIC SURGERY**

Q.P.Code: 181604

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss the biomechanics of distraction osteogenesis and it's applications in plastic surgery.
2. Discuss the recent trends in management of hypertrophic scars.

II. Write notes on: **(10 x 7 = 70)**

1. Chemical burns
2. Foetal surgery.
3. Anastomotic coupling device.
4. Fibrin glues.
5. Abdominoplasty.
6. Hair restoration.
7. Facial Rejuvenation.
8. Hand transplant.
9. Liposculpture.
10. Sensate flaps.

(LN 043)

AUGUST 2018

Sub. Code: 1604

M.Ch. – PLASTIC & RECONSTRUCTIVE SURGERY

**Paper IV – PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES
AND RECENT ADVANCES IN PLASTIC SURGERY**

Q.P.Code: 181604

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Describe the principles of liposuction. Compare the various techniques of liposuction.
2. Describe the recent trends in the evaluation and management of severely protruding premaxilla.

II. Write notes on: **(10 x 7 = 70)**

1. Velo pharyngeal incompetence.
2. Foetal surgery.
3. Hair transplantation.
4. Management of Lymphedema.
5. Biodegradable plates and screws.
6. Distraction osteogenesis.
7. Fibrin glues.
8. Role of silver in burns.
9. Mohs micrographic surgery.
10. Orthopantomogram.

(LO 043)

FEBRUARY 2019

Sub. Code: 1604

M.Ch. – PLASTIC & RECONSTRUCTIVE SURGERY

**Paper IV – PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES
AND RECENT ADVANCES IN PLASTIC SURGERY**

Q.P. Code: 181604

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Describe Hair Growth Cycles. Discuss the mechanism, Classification and Management of Androgenic Alopecia.
2. Discuss in detail about the management of diabetic foot and list its recent advances.

II. Write notes on: **(10 x 7 = 70)**

1. Methyl metha acrylate.
2. Bio Engineering in Plastic surgery.
3. Hyperbaric Oxygen therapy.
4. Biogeometry of Romberg flap.
5. Soft tissue fillers in facial aesthetics.
6. Facial Artery Musculo-Mucosal flap.
7. Mandibular Osteotomies.
8. Immunosuppression in Allotransplantation.
9. Brow Ptosis.
10. Intranasal Lining flaps.

(LP 043)

AUGUST 2019

Sub. Code: 1604

M.Ch. – PLASTIC & RECONSTRUCTIVE SURGERY

**Paper IV – PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES
AND RECENT ADVANCES IN PLASTIC SURGERY**

Q.P. Code: 181604

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Describe Anatomy of Aging face. Discuss types of Rhytidectomy. Describe the Surgical approaches, procedure and complications.
2. Write briefly on Immunosuppression in Allotransplantation. Discuss the harvest, sequence of surgical procedure and post operative care in Human Hand Transplantation.

II. Write notes on: **(10 x 7 = 70)**

1. Bioabsorbable plates.
2. Stem cell therapy in Plastic surgery.
3. Vascular Anastomosis patency tests.
4. Micro RNA in Obesity.
5. Centric Occlusion and relation.
6. Toe transfer.
7. Genioplasty.
8. Super microsurgery.
9. Non Invasive Body Contouring.
10. Bi lobed flaps.

M.Ch. – PLASTIC & RECONSTRUCTIVE SURGERY

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Q.P. Code: 181604

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. What are the layers of face? Describe in detail about the types of Facial Lifts adding note on recent advances in facelift.
2. How has the understanding of blood vessels helped to develop newer flaps? Describe with illustrations on angiosome concept.

II. Write notes on: **(10 x 7 = 70)**

1. Telemedicine in Plastic Surgery.
2. Give the Zone of Cranio Facial Dysplasia and add a note on its management.
3. Bio – geometry of Bilobed Flap.
4. Medial Plantar artery flap.
5. Recent advances in nerve Repair.
6. Submucous cleft.
7. Commissuroplasty.
8. Complex regional pain syndrome of upper extremity.
9. Recent advances in wound healing.
10. Use of lasers in plastic Surgery.

(LR 043)

**NOVEMBER 2020
(AUGUST 2020 SESSION)**

Sub. Code: 1604

M.Ch. – PLASTIC & RECONSTRUCTIVE SURGERY

**Paper IV – PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES
AND RECENT ADVANCES IN PLASTIC SURGERY**

Q.P. Code: 181604

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: (2 x 15 = 30)

1. Discuss indication and contraindications of upper limb replantation.
Describe the surgical steps of replantation of hand through palm.
2. Define perforator flap? Describe in detail about the vascular anatomy, advantages, disadvantages and operative surgery of anterolateral thigh flap.

II. Write notes on: (10 x 7 = 70)

1. Superselective embolization
2. Chemical Peeling
3. Distraction osteogenesis
4. Nerve gap reconstruction
5. Wrap around flap
6. Biofilms of wound
7. Botulinum plastic surgery
8. Lymphatic microsurgery for the treatment of lymphedema
9. Telecanthus
10. Hyperbaric oxygen therapy

(MCH 0821)

AUGUST 2021

Sub. Code: 1604

M.Ch. – PLASTIC & RECONSTRUCTIVE SURGERY

**Paper IV – PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES
AND RECENT ADVANCES IN PLASTIC SURGERY**

Q.P. Code: 181604

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: (2 x 15 = 30)

1. Describe the aesthetic anatomy of nose. Discuss the basic principles and steps of closed rhinoplasty for hump reduction.
2. Describe the surgical anatomy of TM joint. How will you evaluate a 10 year old boy with trismus and deviation of chin to right side? Discuss the surgical options available for management.

II. Write notes on: (10 x 7 = 70)

1. Twisted toe flap.
2. Lymphatic micro surgery.
3. PRP therapy for hair transplant.
4. Prosthetic mesh for abdominal wall.
5. Pre fabricated flaps.
6. Barbed thread facelift.
7. Tissue adhesives.
8. Endoscopic brow lift.
9. Brava assisted breast reconstruction.
10. Hyperbaric oxygen therapy.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(MCH 0822)

AUGUST 2022

Sub. Code: 1604

M.Ch. – PLASTIC & RECONSTRUCTIVE SURGERY

**Paper IV – PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES
AND RECENT ADVANCES IN PLASTIC SURGERY**

Q.P. Code: 181604

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Management of a 22 year old female patient presenting with lower motor neuron type of 7th nerve palsy less than 2 years duration.
2. Vascular basis for zones of TRAM flap. Advantages and disadvantages of a free DIEP flap versus free TRAM flap. Describe briefly about merits and demerits of different surgical techniques of breast augmentation.

II. Write notes on: **(10 x 7 = 70)**

1. Skin substitute.
2. Electrodiagnostic test of peripheral nerve injury.
3. Clinical features and management of acute and chronic rejection in vascularised composite allotransplant of hand.
4. Single stage repair of hypospadias.
5. Venous flap.
6. Ear reconstruction using osseointegrated prosthesis.
7. Robotics in plastic surgery.
8. Hair transplantation.
9. Functional muscle transfer techniques for smile reanimation.
10. Role of hyperbaric oxygen therapy in wound healing.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(MCH 0823)

AUGUST 2023

Sub. Code: 1604

M.Ch. – PLASTIC & RECONSTRUCTIVE SURGERY

**PAPER IV – PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES
AND RECENT ADVANCES IN PLASTIC SURGERY**

Q.P. Code: 181604

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe the pathophysiology of flap failure in pedicle and free flaps. Describe the surgical maneuvers for improving viability of pedicled flaps. Describe the methods to improve viability of free flaps.
2. How do you plan reconstruction in a case of hemimandibulectomy for carcinoma alveolus? What are the recipient vessels for free flaps for oral malignancy? Enumerate options for reconstruction in midline defect of the mandible.

II. Write notes on:

(10 x 7 = 70)

1. Nanocrystalline silver dressings.
2. Anatomy of SMAS layer and briefly write on various techniques of face-lift.
3. Ideal vascularised composite Allotransplant center.
4. Camptodactyly.
5. Surgical anatomy and operative procedure of soleus flap on lower limb reconstruction.
6. Radiation burns.
7. Acellular dermal matrix.
8. Management of desmoids tumor involving epigastric region.
9. Management of chronic tendoachilles rupture.
10. Role of simulation in plastic surgery and evidence of its utility in surgical training paradigms.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(MCH 0124)

JANUARY 2024

Sub. Code: 1604

M.Ch. – PLASTIC & RECONSTRUCTIVE SURGERY

**PAPER IV – PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES
AND RECENT ADVANCES IN PLASTIC SURGERY**

Q.P. Code: 181604

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the Embryology, Classification, Indications and Markings for Unilateral cleft lip. Discuss operative procedure with surgical complications in detail.
2. Discuss the relevant Anatomy, Markings and Elevation of Free Gracilis muscle flap. Describe the uses and complications of the muscle flap.

II. Write notes on:

(10 x 7 = 70)

1. Cauliflower ear.
2. Extensor apparatus in the finger.
3. Ptosis.
4. Naso-orbital-ethmoidal complex fracture.
5. Cyanoacrylate in Plastic surgery.
6. Tissue engineering in Plastic surgery.
7. Sagittal band.
8. Perforator flaps in the leg.
9. Mastopexy.
10. Trochanteric pressure sore.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(MCH 0824)

AUGUST 2024

Sub. Code: 1604

M.Ch. BRANCH III – PLASTIC & RECONSTRUCTIVE SURGERY

**PAPER IV – PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES AND
RECENT ADVANCES IN PLASTIC SURGERY**

Q.P. Code: 181604

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe various techniques of Liposuction. Discuss its indications, patient evaluation, procedure and complications.
2. Describe BI-RADS scoring system and explain in detail oncoplastic breast conservative surgery and reconstructive options.

II. Write notes on:

(10 x 7 = 70)

1. Face transplant.
2. Vascularised lymph node transfer.
3. Stereolithography in Facial reconstruction.
4. Silicon rod.
5. Chimeric flaps.
6. Micro needling skin rejuvenation.
7. Hair growth cycles.
8. Bilateral sagittal splitting osteotomy.
9. Dermal fillers.
10. Distraction osteogenesis.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(MCH 0225)

FEBRUARY 2025

Sub. Code: 1604

M.Ch. BRACH III - PLASTIC & RECONSTRUCTIVE SURGERY

**PAPER IV – PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES AND
RECENT ADVANCES IN PLASTIC SURGERY**

Q.P. Code: 181604

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Bilateral cleft lip and palate. Recent trends in the management of same with a protruding pre-maxilla.
2. What are the layers of face? Cephalometric analysis of face. Describe in detail about the types of facial lift.

II. Write notes on:

(10 x 7 = 70)

1. Zip stitch method of Wound closure.
2. Hirsutism – investigations and treatment options.
3. Platelet rich plasma (PRP) in plastic surgery.
4. Laser assisted lipoplasty.
5. Osseous genioplasty.
6. Injectable soft -tissue fillers.
7. Recent advances in keloid management.
8. Stem cell in plastic surgery.
9. Septorhinoplasty.
10. Bio-geometry of a bilobed flap.

THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

(MCH 0825)

AUGUST 2025

Sub. Code: 1604

M.Ch. BRANCH III – PLASTIC & RECONSTRUCTIVE SURGERY

**PAPER IV – PLASTIC SURGERY AS APPLIED TO ALLIED SCIENCES AND
RECENT ADVANCES IN PLASTIC SURGERY**

Q.P. Code: 181604

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the Indications, Planning, Vascular anatomy and Operative procedure of Anterolateral thigh flap.
2. Discuss the relevant Anatomy, Markings and technique of Groin flap. Describe the uses and complications of the same.

II. Write notes on:

(10 x 7 = 70)

1. Gibson's principle.
2. Poland syndrome.
3. Turnover flaps.
4. Allen's test.
5. Hair transplantation.
6. Blepharoplasty.
7. Lymphedema.
8. Trigger thumb.
9. Tardy Ulnar palsy.
10. Fasciotomy.
