

**POST-DOCTORAL DEGREE EXAMINATION – AUGUST 2022**  
**M.Ch. PLASTIC AND RECONSTRUCTIVE SURGERY**

**Time: 3 Hours**

**Max. Marks: 100**

**PAPER – I**  
**Basic Science and General Aspects of Plastic &**  
**Reconstructive Surgery**

**Q.P. Code: 1517**

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

**Question Number**

**Marks**

**ESSAY QUESTIONS:**

**10 X 10 = 100**

1. Briefly describe the etiology and classification of severity in a case of filarial lymphedema of lower limb.
2. Describe compartment syndrome and outline the management.
3. What are the precautions to be taken while using alloplastic implants? Enumerate the complications of silicone breast implants.
4. The hospital you are working is considering Tissue banks and is seeking your expert opinion. Outline your management plan to set up a skin bank in your institution.
5. Discuss how a surgical delay procedure can improve flap viability.
6. Describe the various flaps rotating around a pivot point.
7. Illustrate how you will plan a pedicled perforator based flap to cover a defect in Tendoachilles region in a 42 year old taxi driver.
8. A 22 year old female wants tattoo removal from her upper back. What are her treatment options?
9. Briefly discuss negative pressure wound therapy.
10. Describe the principles behind Zig-zag incisions in hand surgery.

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**PAPER – II**  
**Plastic & Reconstructive Surgery:**  
**Head & Neck, Trunk**

**Q.P. Code: 1518**

Answers should be specific to the Questions asked.  
Draw neat, labeled diagrams wherever necessary.  
All questions are compulsory.

**Question Number**

**Marks**

**ESSAY QUESTIONS:**

**10 X 10 = 100**

1. Describe the basic principles of craniofacial surgery. How will you manage a 13 year old female patient with right Pruzansky-Kaban Grade II B Hemifacial microsomia?
2. Explain the different techniques used for Commissuroplasty of lip.
3. A patient has sustained a 5X5 cm deep electric burn over the left parietal scalp region with calvarial exposure. How will you manage this patient?
4. Discuss the clinical features and management of Zygoma fractures.
5. Explain the clinical presentation and management of Submucous cleft palate.
6. Explain the Millard's technique of unilateral lip repair with a neat diagram.
7. How will you manage a case of central segment loss of mandible following excision of Ameloblastoma?
8. A 10 year old boy has hairy naevus involving his entire right cheek. Outline the management options for this patient.
9. Explain the development of congenital cleft ear lobe.
10. Describe facial artery Musculo-mucosal (FAMM) flaps.

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**PAPER – III**

**Plastic & Reconstructive Surgery: Upper & Lower Extremity, Genitalia**

**Q.P. Code: 1519**

Answers should be specific to the Questions asked.  
Draw neat, labeled diagrams wherever necessary.  
All questions are compulsory.

**Question Number**

**Marks**

**ESSAY QUESTIONS:**

**10 X 10 = 100**

1. A 41 year old electrician with fracture left shaft of humerus, post plate and screw fixation 6 months back, is presenting to you with inability to extend his wrist and fingers. How will you plan his management?
2. Classify congenital vascular anomalies. What are the newer modalities in their management?
3. Discuss the various techniques of male to female gender reassignment surgeries.
4. Discuss the clinical significance of fibrous flexor sheaths in the hand. What are the principles of staged reconstruction of flexor tendons?
5. Give a brief account of the management of Trophic ulcers of foot.
6. Describe the surgical technique of harvesting on Osseo-cutaneous Fibula free flap. Describe the vascular basis of this flap.
7. Classify and explain principles of management of congenital Syndactyly of hands.
8. Describe the management of Dupuytren's contracture.
9. Outline briefly, the post-operative rehabilitation protocol of a non-recovering paraplegic patient with T10 spine fracture, treated with Gluteal rotation flaps for grade IV pressure ulcers.
10. Discuss the mechanism and management of Ring avulsion injuries of hand.

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**PAPER – IV**  
**Plastic & Reconstructive Surgery: Cosmetic Surgery and**  
**Recent Advances**

**Q.P. Code: 1520**

Answers should be specific to the Questions asked.  
Draw neat, labeled diagrams wherever necessary.  
All questions are compulsory.

**Question Number**

**Marks**

**ESSAY QUESTIONS:**

**10 X 10 = 100**

1. Explain briefly regarding adipose derived stem cells. What is cell assisted transfer?
2. Describe the principles and applications of Hyperbaric oxygen therapy (HBOT).
3. Give a short account of the mechanisms involved in age changes of face.
4. Discuss regarding the techniques of Augmentation mammoplasty. How is Anaplastic large cell lymphoma (ALCL) related to breast augmentation?
5. Discuss the applications of regenerative medicine in plastic surgery.
6. Explain the grading and management of Gynecomastia.
7. Outline the steps involved in closed rhinoplasty for aesthetic correction of hump nose.
8. Describe facial feminizing surgeries.
9. Briefly outline Lipo-abdominoplasty technique.
10. Discuss the applications of Distal nerve transfers in reconstructive surgery.

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