

POST-DOCTORAL DEGREE EXAMINATION – JANUARY 2024
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. What is "Delay". Enlist at-least three mechanisms underlying the rationale of performing a "Delay" and at least five different methods of performing the procedure of "Delay". (2+3+5)
2. Define Graft and Flap. How are the Grafts and Flaps classified? Mention the indications for flap cover. Describe the geometry of Transposition and Rotation flaps. (1+1+2+2+2+1+1)
3. What is 'Healing by Primary Intention and healing by Secondary Intention'? Describe the phases of wound healing. Enlist the factors which impair wound healing. (2+2+3+3)
4. What is an Angiosome? Describe the features of Angiosome concept with clinical applications. (2+5+3)
5. Define the terms Microsurgery and Supermicrosurgery. Enlist the indications for free tissue transfer. Enlist the instruments required. Describe the Operative preparation, the technique and the Postoperative monitoring in brief. (1+1+2+2+2+2)
6. Describe the different types of Resuscitation formulae in burn resuscitation and enlist the different monitoring methods of the resuscitation of burns. (5+5)
7. Describe in brief the anatomy of a nerve fibre. Classify the nerve injuries and enlist in brief the Principles of Nerve repair. (2+6+2)
8. Describe the changes in tissues with tissue expansion. Enumerate the types of tissue expanders and enlist few clinical applications of tissue expansion. (3+3+4)
9. Classify the Fasciocutaneous flaps, based on the blood supply, illustrating with examples. What are the advantages of FC flaps over skin flaps? (6+4)
10. What is LASER? Describe the production of LASER. Enlist the uses of LASERS in Plastic surgery. (2+4+4)

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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. How are the fractures of the Mandible classified. Describe in brief the Principles of management of fractures of the Mandible.	(5+5)
2. What is Submucous fibrosis. Discuss the various methods of its management .	(2+8)
3. Describe the surgical anatomy of orbit. Discuss the management of blowout fracture of orbit.	(5+5)
4. Describe the anatomy of extra cranial course of facial nerve. Discuss about “Reanimation of the paralysed face”.	(5+5)
5. Enlist at-least five different methods of reconstructing the “Lost ear lobule”. Describe of the techniques in detail.	(5+5)
6. Describe the development of face and the embryogenesis of Cleft lip in brief. Describe one of the techniques of Repair of Cleft lip.	(3+2+5)
7. What is “ Washio flap”. Describe the Vascular basis and the Planning of it along with one clinical application of it.	(2+2+4+2)
8. What is Mastopexy. How do you grade the Ptosis of Breast. Describe in brief one of the technique of Mastopexy.	(1+3+6)
9. What is Ventral Hernia. Discuss the various methods of repair of large Ventral hernia and the indications for free tissue transfer for large abdominal hernia.	(1+4+5)
10. Describe the anatomy of scalp. Describe the management of compound scalp defect, measuring between 3cm and 6cm.	(3+7)

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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. What is Gustilo's classification of open fractures of tibia. Describe the principles of management of Compound, Grade II B fracture in the lower third of leg.	(3+7)
2. Describe the surgical anatomy of heel pad . Discuss the management of loss of the heel pad.	(5+5)
3. Describe the clinical flexor tendon injury zones in the hand and forearm. Describe the methods of restoration of flexor tendon continuity, the post-operative management, the complications of tendon repair and their management.	(2+2+2+2+2)
4. What are the types of Electrical Burns? What is Fasciotomy,? Draw the lines of fasciotomy on the extremities. Describe the differences in the management of electrical burns as compared to the flame burns, in the acute and in subsequent phases.	(3+4+3)
5. Describe the anatomy of Brachial plexus, through a diagram. How will you manage a case of closed Adult brachial plexus injury.	(4+6)
6. Describe the Aetiology, embryology, differential diagnosis and treatment for Vaginal agenesis.	(1+2+2+5)
7. Discuss the classification and management of lymphoedema of lower limb.	(5+5)
8. Describe the various elective incisions used for elective procedures in hand surgery.	
9. What is Boutonniere deformity and describe its treatment.	(4+6)
10. Discuss the pathophysiology of Pressure sore and the management of ischial pressure sore in a 30 year old paraplegic female.	(5+5)

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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. What is Tissue Engineering? Enumerate the principle steps of Tissue engineering. Mention certain clinical applications in Plastic Surgery.	(2+5+3)
2. What is a “ Perforator flap”? Enlist atleast three different flaps which can be used to reconstruct the Breast ? Describe the anatomy, the vascular pedicle and the method of harvest of Deep Inferior Epigastric flap and the method of it’s usage in reconstruction of the breast.	(1+3+1+1+2+2)
3. What is Endoscopic surgery? Enlist the instruments involved in it. Describe the role of Endoscopy in Plastic Surgery with few clinical applications.	(2+3+5)
4. What is Transplant biology? Enumerate the various investigations done before undertaking transplant surgery. Enlist the different drugs that are used after allotransplantation. Name the different transplant surgeries undertaken in Plastic surgery.	(2+2+3+3)
5. What is an “ Implant”? Enlist the ideal properties of an Implant, classify them, and enumerate atleast one clinical application of each of them.	(1+2+2+5+2)
6. What is autologous Platelet rich fibrin? What are the two types of PRF? How is it prepared? Describe the role of PRF in Plastic Surgery.	(2+4+2+2)
7. Discuss the clinical features, differential diagnosis and management of Hemangioma with a note on the recent advances.	(2+2+4+2)
8. What is the role of Plastic surgery in Morbid Obesity?	
9. What is Laser? Classify Lasers. Discuss the role of Lasers in Plastic Surgery.	(1+3+6)
10. What is skin bank? Describe the procedure of banking the skin in it.	(2+8)