

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MS (GENERAL SURGERY) DEGREE EXAMINATION – JUNE 2020**  
**SUBJECT: PAPER I: BASIC SCIENCES**

Wednesday, June 03, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Essay questions:**

1. Discuss different types of shock. Describe the management of a patient in septic shock.  
(15 marks)
2. What is massive blood transfusion? Discuss various types of blood products available and hazards of massive blood transfusion.  
(15 marks)

3. **Short notes:**

- 3A. Universal precautions
- 3B. Concept of brain stem death
- 3C. Total parenteral nutrition
- 3D. Oncogenes
- 3E. Application of tumour markers in clinical practice
- 3F. Antibiotic prophylaxis in surgery
- 3G. Surgically correctible hypertension
- 3H. Sentinal lymph node biopsy
- 3I. Digital subtraction Angiography
- 3J. Surgical audit

(7 marks × 10 = 70 marks)



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**MS (GENERAL SURGERY) DEGREE EXAMINATION – JUNE 2020**  
**SUBJECT: PAPER II: SURGICAL SPECIALITIES**

Thursday, June 04, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Essay questions:**

1. Discuss pathology, clinical features and management of Ano-rectal malformations.  
(15 marks)
2. Describe the pathophysiology, clinical features and management of benign prostatic hyperplasia.  
(15 marks)

3. **Short notes:**

- 3A. Ectopia vesicae
- 3B. Haemothorax
- 3C. Chronic duodenal ulcer
- 3D. Osteoclastoma
- 3E. Glioblastoma multiforme
- 3F. Free flaps
- 3G. Nephron sparing surgery
- 3H. Choledochal cyst
- 3I. Resuscitation of a patient with 40% burns
- 3J. Pancoast tumour

(7 marks × 10 = 70 marks)



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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MS (GENERAL SURGERY) DEGREE EXAMINATION – JUNE 2020**  
**SUBJECT: PAPER III: PRINCIPLES AND PRACTICE OF SURGERY**

Friday, June 05, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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✍ **Answer ALL the questions.**

✍ **Essay questions:**

1. Discuss pathophysiology, clinical features and management of portal hypertension with emphasis on bleeding oesophageal varices.

(15 marks)

2. Discuss the pathology, clinical features, staging of thyroid malignancy. Focus in detail on management of papillary carcinoma thyroid.

(15 marks)

3. **Write short notes on:**

3A. Indications of Diagnostic laparoscopy

3B. Carcinoid appendix – Management

3C. Ductal Carcinoma in situ (DCIS) – management

3D. Management of Abdominal Compartment Syndrome

3E. Infections of the Hand

3F. Mixed parotid tumour.

3G. Enterocutaneous fistula

3H. Describe the types of lower limb amputations

3I. Deep vein thrombosis: Aetiopathogenesis, prophylaxis, complication and management

3J. Field block for Inguinal Hernia surgery

(7 marks × 10 = 70 marks)



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**MS (GENERAL SURGERY) DEGREE EXAMINATION – JUNE 2020**

**SUBJECT: PAPER IV: RECENT ADVANCES**

Saturday, June 06, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions. Draw illustrations wherever necessary.

✍ Essay Questions:

1. Current concepts about fluid resuscitation in a surgical patient. (15 marks)

2. Recent definitions, concepts and recommendations in acute pancreatitis. (15 marks)

3. Write short notes on:

3A. Roux-en-Y gastric bypass versus sleeve gastrectomy for morbid obesity.

3B. Recent advances in wound dressings.

3C. Minimally invasive robotic surgery.

3D. Prosthetics for hernia repair.

3E. Management of high-risk factors for breast cancer.

3F. PET-CT scans in surgery.

3G. Recent advances in energy sources in surgery.

3H. Per oral endoscopic myotomy (POEM).

3I. Current indications and contraindications for liver transplant.

3J. Trans anal endoscopic microsurgery.

(7 marks × 10 = 70 marks)

