

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MS (GENERAL SURGERY) DEGREE EXAMINATION – OCTOBER 2022**

**PAPER I**

Monday, October 03, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Draw illustrations wherever necessary.**

✍ **Essay questions:**

1. Discuss the evaluation of severity of trauma. Classify splenic injuries and discuss its management

(3+4+8 = 15 marks)

2. Discuss the classification, etiology, pathophysiology and management of renal failure in surgical patient

(3+3+3+6 =15 marks)

3. **Write short notes:**

3A. Management of septic shock

3B. Complications of blood transfusion and management

3C. Indications, methods and monitoring of total parental nutrition in surgical patient

3D. Spinal anesthesia and its complications

3E. Clinical features, management and complications of amoebiasis

3F. Staging and management of malignant melanoma

3G. Causes, clinical features and management of thoracic outlet obstruction

3H. Therapeutic embolization

3I. Prophylaxis and management of deep vein thrombosis

3J. Day care surgery selection criteria, problems and procedures

(7 marks × 10 = 70 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MS (GENERAL SURGERY) DEGREE EXAMINATION – OCTOBER 2022**

**PAPER II**

Tuesday, October 04, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Essay questions:**

1. A 22-year-old girl has symptoms of primary hyperthyroidism. How would you evaluate and treat this patient?

(7+8 = 15 marks)

2. A 49-year-old perimenopausal lady has reported with a hard right breast lump. On examination, it is 5x3 cm and mobile. Central group of right axillary mobile lymph nodes are palpable. Discuss the investigations and treatment of this patient.

(7+8 = 15 marks)

3. **Write short notes:**

3A. Management of subdiaphragmatic abscess

3B. Management of anal incontinence

3C. Myocutaneous flaps

3D. Surgical complications of typhoid fever

3E. Dietl's crisis

3F. Mesenteric cysts: types and management

3G. Surgical management of benign prostatic hypertrophy

3H. Tetralogy of Fallot: investigations and treatment

3I. Preoperative preparation for pheochromocytoma surgery

3J. Field cancerisation

(7 marks × 10 = 70 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MS (GENERAL SURGERY) DEGREE EXAMINATION – OCTOBER 2022**  
**PAPER III**

Thursday, October 06, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Draw illustrations wherever necessary.**

✍ **Essay questions:**

1. A 46 years old lady is referred to you following laparoscopic cholecystectomy with a drain in situ pouring bilious output. What is your impression? Describe the classifications and management of bile duct injuries. Add a note on “safe laparoscopic cholecystectomy”  
(1+4+6+4 = 15 marks)
  
2. A 65 years old gentleman presents with rectal bleeding, weight loss and hepatomegaly. Per rectal examination reveals a mid-rectal growth. Discuss the evaluation and management of this patient. Explain the management options for rectal cancer with synchronous liver metastasis.  
(4+6+5 = 15 marks)

3. **Write short notes:**

- 3A. Classification and management of achalasia cardia.
- 3B. Causes and management of occult gastrointestinal bleed.
- 3C. Causes, presentation and management of pseudomyxoma peritonei.
- 3D. Investigations and treatment options of rectal prolapse
- 3E. Management of hepatocellular carcinoma
- 3F. Management of intra-abdominal adhesions
- 3G. Indications and types of surgery for chronic pancreatitis
- 3H. Types, presentation and management of internal hernias
- 3I. Complications of bariatric surgery
- 3J. Management of fistula-in-ano

(7 marks × 10 = 70 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MS (GENERAL SURGERY) DEGREE EXAMINATION – OCTOBER 2022**

**PAPER IV**

Friday, October 07, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Draw illustrations wherever necessary.**

✍ **Essay questions:**

1. Discuss the Impact of the Coronavirus (COVID-19) pandemic on surgical practice. (15 marks)
  
2. Recent advances in management of varicose veins. (15 marks)
  
3. **Write short notes:**
  - 3A. Endoluminal stents in GIT
  - 3B. Complications of Radiofrequency Tissue Ablation
  - 3C. Meshes used in hernia surgery
  - 3D. Applications of endoscopic ultrasound in surgery
  - 3E. Cancer immunotherapy
  - 3F. Radionuclide imaging
  - 3G. Recent advances in wound dressings
  - 3H. Ki67
  - 3I. WHO – Surgical safety checklist
  - 3J. Digital Subtraction Angiography(7 marks × 10 = 70 marks)

