

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MS (GENERAL SURGERY) DEGREE EXAMINATION – JUNE 2024**  
**PAPER I**

Monday, June 10, 2024

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Draw illustrations wherever necessary.**

✍ **Essay questions:**

1. A 38-year-old male sustained a leg injury at work and developed swelling and discharge from the wound. He was brought to the emergency in a disoriented state. On local examination, there was copious foul smelling discharge from the wound with gangrenous calf muscles. What is your diagnosis? How would you investigate and manage this patient?

(1+6+8 = 15 marks)

2. A 25-year-old male was brought to the casualty with a stab injury on the left lower chest. On examination, he was unconscious with deranged vital parameters. How would you examine, investigate and treat this patient?

(4+5+6 = 15 marks)

3. **Write short notes:**

3A. Venous drainage of the lower limb

3B. Fluid and electrolyte changes in gastric outlet obstruction

3C. Thyroid function tests

3D. Synergistic infections

3E. Prophylactic antibiotics in surgery.

3F. Tumour markers

3G. Enterohepatic circulation of bile salts

3H. Endotoxic shock

3I. Ionising radiation

3J. MEN syndrome

(7 marks × 10 = 70 marks)



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**PAPER II**

Tuesday, June 11, 2024

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all the questions.**

✍ **Draw illustrations wherever necessary.**

✍ **Essay questions:**

1. A 50 year old women presents with deep jaundice of 2 months' duration, with fever, pain and pale stools. Physical examination revealed features of obstructive jaundice, hepatomegaly and no palpable gallbladder. How do you arrive at a diagnosis?  
Discuss the pathology and principles of management of cholangiocarcinoma.

(3+4+8 = 15 marks)

2. Classify intestinal fistulae;  
Describe briefly the pathophysiology and complications, evaluation and management of intestinal fistulae

(4+4+3+4 =15 marks)

3. **Write short notes:**

- 3A. Ischiorectal fossa  
3B. Rationale of preperitoneal approach to groin hernia repair.  
3C. Chronic subdural hematoma.  
3D. Hashimoto's Thyroiditis.  
3E. HNPCC syndrome.  
3F. Malrotation of midgut.  
3G. Write briefly the staging and management of Retroperitoneal sarcoma.  
3H. Surgical anatomy of abdominal vagus nerve and different vagotomies.  
3I. Pancreatic pseudoaneurysm  
3J. Potts puffy tumour.

(7 marks × 10 = 70 marks)



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**PAPER III**

Wednesday, June 12, 2024

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Draw illustrations wherever necessary.**

✍ **Essay questions:**

1. Describe surgical anatomy of parotid gland with reference to fasciovenous plane of Patey. Discuss procedure of superficial parotidectomy, complications of procedure and management of complications.

(4+6+5 = 15 marks)

2. Discuss in detail surgical management of a case of carcinoma rectum.

(15 marks)

3. **Write short notes:**

3A. Surgical anatomy of liver.

3B. Management of pheochromocytoma

3C. Surgical management of achalasia cardia

3D. Various methods of management of pseudocyst of pancreas

3E. Management of duodenal stump leak following gastrectomy

3F. Classification of bile duct injuries

3G. Trans jugular intrahepatic portosystemic shunt - indications and procedure

3H. Complications of splenectomy.

3I. Component separation in hernia surgery.

3J. Short bowel syndrome causes and management

(7 marks × 10 = 70 marks)



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**PAPER IV**

Thursday, June 13, 2024

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Draw illustrations wherever necessary.

✍ Essay Questions:

1. An 40 year old male underwent Laparoscopic cholecystectomy for calculous cholecystitis. Two weeks later he presents to casualty with pain abdomen and jaundice

1A. What will be your probable diagnosis?

1B. What will be the initial management?

1C. Discuss the final treatment for this case.

(3+5+7 = 15 marks)

2. An 60 year old male who has biopsy proved carcinoma of the rectum 5cm from anal verge. Was admitted in surgery department, ultrasound scan abdomen showed multiple liver metastasis. Discuss following aspects.

2A. Selection for surgery

2B. Oncological management

2C. Operative planning

(3+5+7 = 15 marks)

3. Write short notes:

3A. Endovenous technique in varicose vein surgery

3B. Confidential reporting system for surgery

3C. Assessment of IV fluid and electrolyte in surgical patients

3D. Endoscopic procedures for gastroesophageal reflux

3E. Determining resectability in pancreatic cancer

3F. Enhanced recovery following colorectal resection

3G. Discuss ligation of intersphincteric fistulous tract

3H. Discuss the advantages and disadvantages of robotic surgery

3I. Clinical presentation and treatment of neurological thoracic outlet syndrome

3J. Discuss the approach to duodenal injury

(7 marks × 10 = 70 marks)

