

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MS (GENERAL SURGERY) DEGREE EXAMINATION – MAY 2021**

**PAPER I**

Monday, May 03, 2021

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **Answer ALL the questions.**
- ✍ **Draw illustrations wherever necessary.**

✍ **Essay questions:**

1. A 40 year old male brought to the emergency room with history of road traffic accident few hours ago. How do you triage this patient in emergency room? What is secondary survey in triage system? Write a note on utilities of FAST in trauma? Write the indications for emergency room thoracotomy.

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

2. A 55 year old male diabetic has been brought to the emergency room with leg swelling, discoloration and foul smelling discharge of two day duration. On examination patient is confused, disoriented with pulse 110/min and systolic BP of 90mmHg. A necrotic patch in the occupying the entire circumference of the leg is seen. What is your diagnosis? What is the initial resuscitation plan? What are the methods of reconstruction following surgical debridement? Write a note on factors affecting the wound healing.

(1+4+6+4 = 15 marks)

3. **Write short notes:**

- 3A. Elaborate the components of SIRS.
- 3B. How to follow the methods of universal precautions when you have a HIV positive individual scheduled for an elective surgery?
- 3C. Evidence based surgery
- 3D. Elaborate the method of conduct of a surgical audit.
- 3E. What is frozen section? Elaborate in detail about the method in which it is done. What are its uses in surgery?
- 3F. Enlist the methods for post-op pain relief. Elaborate on epidural analgesia.
- 3G. Criteria for declaration of brain death. Add a short note on cadaveric organ donation.
- 3H. Goals of damage control surgery.
- 3I. Enumerate complications associated with massive blood transfusion.
- 3J. Multidrug resistant organisms in surgery and their prevention.

(7 marks × 10 = 70 marks)





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**PAPER II**

Tuesday, May 04, 2021

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Draw illustrations wherever necessary.**

✍ **Essay questions:**

1. A 35 years old female presents to surgery opd with the history of blackish discoloration of the right index finger associated with continuous pain over the same limb. RIGHT radial artery pulsations were not felt. She also has a hard fixed mass at right supraclavicular fossa.

- i) What are the possible diagnosis?
- ii) Describe the aetiopathogenesis and clinical features of this condition.
- iii) Treatment

(3+5+7 = 15 marks)

2. A 40-year-old female patient presents to surgery opd with history of progressive jaundice with itching all over the body, intermittent fever since 2 weeks. About a month back she has undergone laparoscopic cholecystectomy for cholelithiasis.

- i) What are the causes of jaundice in this patient?
- ii) Investigations
- iii) Treatment in detail.

(3+5+7 = 15 marks)

3. **Write Short Notes:**

- 3A. Clinical features and treatment of Typhoid perforation
- 3B. Investigations and treatment of congenital hypertrophic pyloric stenosis
- 3C. Role of H.Pylori its diagnosis and eradication
- 3D. Aetiopathogenesis and Treatment of Hydatid cyst of liver
- 3E. Aetiopathogenesis and treatment of Amoebic liver abscess
- 3F. Treatment of bleeding oesophageal varices
- 3G. Management of pancreatic fistula
- 3H. Clinical & pathological differences between Ulcerative colitis and Crohn's disease.
- 3I. Aetiopathogenesis and treatment of First degree haemorrhoids
- 3J. Classification and treatment of Hypospadias, types and reconstruction

(7 marks × 10 = 70 marks)





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**PAPER III**

Wednesday, May 05, 2021

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Draw illustrations wherever necessary.**

✍ **Essay questions:**

1. 75 year old man with colonoscopic biopsy proved adenocarcinoma rectosigmoid junction, presented to the hospital with acute intestinal obstruction. How do you diagnose and treat intestinal obstruction? Discuss various surgeries for this patient. How do you counsel this patient?

(6+6+3 = 15 marks)

2. 32 year young man presented with severe abdominal pain, coffee ground vomitus, and shock. Abdomen was tender with guarding and rigidity. He also gives history of hunger pain and taking some tablets for the last 1 month for his knee pain. What is the diagnosis? Discuss investigations and management of this condition.

(3+5+7 = 15 marks)

3. **Write short notes:**

3A. Principles and types of urethral reconstruction

3B. Steps of total thyroidectomy

3C. Management principles of massive abdominal wall hernia with loss of domain

3D. Discuss management of acute calculous cholecystitis

3E. Operative steps of Lichenstein's hernioplasty and complications of this repair

3F. Patient with right lower chest injury presents to emergency triage with 80 mm of Hg. CECT scan reveals grade 4 liver injury. Discuss resuscitation principles and management of this patient.

3G. Types of cleft lip and types of cleft lip repair

3H. Principles of local advancement flaps repair of defects over excision of face lesions

3I. Principles, steps and complications of small intestinal resection and anastomosis

3J. Various types of parotidectomy

(7 marks × 10 = 70 marks)





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**PAPER IV**

Thursday, May 06, 2021

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **Answer ALL the questions.**
- ✍ **Draw illustrations wherever necessary.**

✍ **Essay questions:**

1. Discuss the aetiopathogenesis, clinical features and management of systemic inflammatory response syndrome.

(4+5+6 = 15 marks)

2. Classify the causes of portal hypertension. Discuss the investigations and treatment of a 48-year-old male presenting with haematemesis.

(4+5+6 = 15 marks)

3. **Write short notes:**

- 3A. Blood fractionation
- 3B. Staging laparoscopy
- 3C. Nonoperative management of hepatocellular carcinoma
- 3D. Post-transplant allograft rejection
- 3E. Genetic basis of cancer
- 3F. Radiofrequency ablation
- 3G. Fast track surgery
- 3H. Stress cardiomyopathy
- 3I. Alkaline tide and its clinical application
- 3J. Endoluminal ultrasound

(7 marks × 10 = 70 marks)

