

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

**PAPER I**

Friday, April 01, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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

✍ **Essay questions:**

1. A 60 year old man presents to surgery opd with history of swelling at the left parotid region with difficulty in opening of mouth since 15 days. On examination he has a hard irregular mass of 8×12cm with the ulceration of the overlying skin. Regional lymph nodes are not palpable.

- 1A. What will be your diagnosis with explanation?  
 1B. Investigations and staging of the disease  
 1C. Treatment with explaining the steps of the procedure

(15 marks)

2. Triage with history of generalized convulsions with neck rigidity. He is fully conscious vital sign are stable. About seven days back he had prick by rusted nail while working. He has not taken any treatment at that time.

- 2A. What will be your diagnosis with points to support it?  
 2B. Describe the pathogenesis and clinical features  
 2C. Treatment and methods of prevention

(3+5+7 = 15 marks)

3. **Short Notes:**

- 3A. Advances in the management of mastalgia  
 3B. Key aspects in defending Medical litigation and how to avoid it.  
 3C. Clinical features and diagnostic methods of Mycetoma foot.  
 3D. Concepts behind enhanced recovery after surgery  
 3E. Complications of massive blood transfusion  
 3F. Pathophysiology and advantages of Vacuum-assisted closure  
 3G. Tube feeding techniques and complications  
 3H. Clinical features and management of Ludwig's Angina  
 3I. Principle of fluid resuscitation in a burn patient  
 3J. Therapeutic endoscopic ultrasound

(7 marks × 10 = 70 marks)



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**PAPER II**

Saturday, April 02, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Draw illustrations wherever necessary.

✍ Essay questions:

1. 65 year old man who is a pan chewer and smoker for the last 40 years was referred to the hospital with a non healing ulcer on right lateral tongue 1cm away from tip for 2 months duration. Discuss differential diagnosis of such lesions. How do you investigate and treat this patient?

(4+4+7 = 15 marks)

2. 30 year old man alcoholic presented to the hospital with large mass in the epigastrium. On questioning he says he had severe pain abdomen 2 months back and was admitted and treated and he improved. Now he has dull aching pain and 1 to 2 episodes of vomiting per day. What is your diagnosis and differential diagnosis of this mass abdomen? Discuss clinical features, investigations and management of this patient.

(2+3+4+6 =15 marks)

3. Write short notes:

3A. Diagnosis and management of a patient with proved gall stones with intestinal obstruction.

3B. Diagnosis and management of a 20 year old boy with pain abdomen, vomiting and fever and plain X - ray showing a faecolith in the lower right abdomen.

3C. Role of Bathesda criteria in the management of solitary nodule thyroid gland treatment options.

3D. Investigations of a 32 year old lady with 1.5 cm lump outer quadrant of the breast and Core needle biopsy proved infiltrating ductal carcinoma

3E. Barrett's esophagus: Types, its role in carcinoma esophagus and treatment

3F. Extra dural hematoma - diagnosis and management

3G. Management of a 30 year old man with hematemesis due to bleeding duodenal ulcer

3H. Diagnosis and management of 9 months child with passage of red currant jelly stools.

3I. Management of a 75 year old man with carcinoma prostate with bone metastasis

3J. Causes, evaluation and treatment of male infertility

(7 marks × 10 = 70 marks)



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**PAPER III**

Monday, April 04, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Draw illustrations wherever necessary.

✍ Essay questions:

1. A 45-year-old male complains of dysphagia for solids. Mention various causes of dysphagia. Describe briefly the management of carcinoma middle third of oesophagus.

(5+10 = 15 marks)

2. A 72-year-old male previously diagnosed to have an abdominal aortic aneurysm has been brought to the emergency room in an unresponsive state. Discuss the management of this patient.

(15 marks)

3. Write short notes:

3A. Day care surgery

3B. Surgical management of lower limb lymphoedema

3C. Post-spinal headache

3D. Pericardiectomy: indications and complications

3E. Management of lung abscess

3F. Le Forte fractures of the skull: types and management

3G. Role of surgery in morbid obesity

3H. Total extraperitoneal repair of hernia

3I. Thyroid storm

3J. Pringle manoeuvre

(7 marks × 10 = 70 marks)





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**PAPER IV**

Tuesday, April 05, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Draw illustrations wherever necessary.

✍ Essay questions:

1. Describe briefly the pharmacology of Octreotide.

Discuss the role of octreotide in diagnosis and therapy in surgical practice.

(5+2+8 = 15 marks)

2. Describe Gleason's score for staging of carcinoma prostate.

Describe briefly the principles of modalities of treatment with focus on recent advances.

Briefly outline the principles of Robotic surgery for carcinoma and Write a note on abiraterone.

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

3. Write short notes:

3A. MIBG scan - description, indications and application.

3B. Sestamibi scan - description indication, technical information.

3C. Glucagon like polypeptide (GLP) - physiology, actions and its role in surgery for diabetes

3D. Mismatch Repair gene deletions and implications in cancer therapy.

3E. Endoscopic mucosal resection v/s endoscopic submucosal resection.

3F. Ampullectomy (resection of Ampulla of Vater).

3G. TACE (Trans arterial chemo embolisation).

3H. Sorafenib

3I. Lasers in surgery

3J. IMRT

(7 marks × 10 = 70 marks)

