

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MS (GENERAL SURGERY) DEGREE EXAMINATION – MAY 2026**  
**PAPER I (NEW SCHEME)**

Monday, May 18, 2026

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Illustrate with diagrams charts and/or flow charts where necessary.**

1. Enumerate Surgical anatomy of parotid gland and its importance in operative surgery. Add briefly on management of per-operative facial nerve injury/tumour involvement.  

(10 marks)
2. A 55-year-old man with diabetes mellitus who is on insulin presents with swelling in the dorsum and plantar aspect of the right foot, redness and yellow blebs. He is having fever, chills, and is toxic with 120 pulse rate a total white cell count of 22000 and Random blood sugar of 330mg%. How will you manage him?  

(10 marks)
3. A 60-year-old man underwent radical gastrectomy for carcinoma pylorus 15 days earlier. His Serum Albumin is 1.2 gram%; Haemoglobin is 8.5 gram%. He is in catabolic state with nutritional deprivation due to an anastamotic leak. How will you strategize his nutrition and restitution? Add a note on different nutrition methods in surgical patients.  

(10 marks)
4. A 40-year-old female has left leg diffuse swelling which has slowly progressed in last 4 years. Her skin around left leg and foot are thickened, hyperpigmented with fissuring, papillae, ulceration and lymph ooze.
  - a) What is your Diagnosis?
  - b) How will you grade the disease?
  - c) Enumerate your approach towards managing her.
  - d) What are different surgical options available for managing the same.

(1+2+3+4 = 10 marks)
5. A 30-year-old male presents to casualty following a road traffic accident with blunt injury abdomen. He is in shock with thready rapid pulse, hypotension, sweating, pallor. What immediate management policy will you have in this patient? Brief the further plan of action in this patient.  

(10 marks)
6. A 54-year-old farmer came with multiple discharging sinuses in his right foot and lower leg of one year duration. It started insidiously and progressed to form multiple sinuses. Later he developed difficult in walking and pain. What are the differential diagnoses? How this patient should be managed?  

(10 marks)

7. A 40-year-old female comes to Emergency room with 40% second degree burns over chest wall, abdomen and part of both limbs sustained due to moist thermal burns sustained 4 hour earlier.
- How will you manage her fluid therapy in first 48 hours.
  - What are the strategies for further management in her.
  - What are the complications of burns and how will you prevent.
- (10 marks)
8. A 50-year-old male with chronic kidney disease is on regular haemodialysis. Patient and relatives want him to undergo renal transplantation. Enumerate the legal details and donor criteria involved in transplantation.
- (10 marks)
9. An 80-year-old man comes with irreducible right inguinal hernia. He is cardiac patient on aspirin; he is also a diabetic and hypertensive.
- What is your preoperative preparation and strategy in taking him up for surgery?
  - What is the choice of anaesthesia and detail out the consent to be taken.
  - What surgical approach will you take.
- (4+3+3 = 10 marks)
10. Discuss the electrolyte homeostasis in surgical patients
- (10 marks)



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**MS (GENERAL SURGERY) DEGREE EXAMINATION – MAY 2026**  
**PAPER II (NEW SCHEME)**

Tuesday, May 19, 2026

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

**✍ Answer all the questions.**

**✍ Draw neat labeled diagrams, flow charts or algorithms where appropriate.**

1. Discuss the aetiopathogenesis and management of common bile duct calculi.
2. Rationale of pre-peritoneal approach to groin hernia repair.
3. Mention the functions of spleen and how do you preserve the spleen in trauma?
4. Describe clinical features and management of primary hyperparathyroidism.
5. Describe management of faecal fistula.
6. Discuss coronary artery bypass grafting and its outcome.
7. Describe the clinical features and management of a case of intussusception in adult.
8. Describe classification and management of pseudomyxoma peritonei.
9. Discuss the management of subdural haematoma.
10. Describe the minimally invasive techniques to treat varicose veins.

(10 marks × 10 = 100 marks)



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**PAPER III (NEW SCHEME)**

Wednesday, May 20, 2026

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Draw neat labeled diagrams, flow charts or algorithms where appropriate.**

1. Describe the wave form in a Normal arterial Duplex scan with significance of variations. Add a note on Cilastazol. What are the interventional management available in management of peripheral arterial occlusive disease in a young patient  
(3+2+5 = 10 marks)
2. A 2-day old female child presents with passage of stool per vaginum. What is the probable cause and discuss management of this condition.  
(2+8 = 10 marks)
3. A young man is diagnosed to have a hiatus hernia. What are the various treatment options available for him, write in detail about Toupet's Fundoplication.  
(4+6 = 10 marks)
4. A 25-year-old lady presents with swelling and pain in the left submandibular region both of which increases on eating. The mass is bi-digitally palpable. What is your diagnosis? Write in detail the Management of same.  
(10 marks)
5. A lady presents with throbbing pain and swelling in the right index finger. On examination she has a purulent collection around the nail bed. What is your diagnosis? Enumerate in detail the surgical management of same. Add a note on pulp space infection of fingers.  
(1+5+4 = 10 marks)
6. A 25-yr old man undergoes an emergency Appendicectomy. The histo-pathology report shows a 3 cm Carcinoid tumour at the base. Discuss further management of this gentleman.  
(10 marks)
7. Enumerate management of a Type I Choledochal cyst (Todani Classification) in a 35-yr old female. Add a note on Todani Classification.  
(10 marks)
8. Describe the various types and in detail enumerate one procedure of a two layered hand sewen ileo-ileal intestinal anastomosis.  
(10 marks)
9. What is the Ulnar Paradox? What are various causes for same? Add a note on management of traumatic ulnar nerve injury.  
(10 marks)
10. A 70-yr old lady presents with a 3 cm ulcerated lesion near the inner canthus of her Left eye. This is proved to be a Basal Cell Carcinoma on investigations. Discuss specific management.  
(10 marks)



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**PAPER IV (NEW SCHEME)**

Thursday, May 21, 2026

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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✍ **Answer ALL the questions.**

✍ **Draw neat labeled diagrams, flow charts or algorithms where appropriate.**

1. A 42 years old male was detected to have left upper pole and right lower pole renal cell carcinoma measuring 3.5 cms each. Discuss the principles of management of this patient.
2. Discuss endoscopic mucosal resection and endoscopic submucosal dissection for the management of carcinoma esophagus.
3. Discuss the role of sphincter saving procedures in the treatment of carcinoma rectum.
4. Discuss the challenges and controversies in the organ transplantation scenario in India.
5. Elaborate the role of immediate reconstruction in a 42 year old lady who has undergone modified radical mastectomy for carcinoma right breast cT2N1M0. Add a note on immediate implant reconstruction with acellular dermal matrix.
6. Minimally invasive parathyroidectomy.
7. Discuss the role of novel technologies for margin assessment during surgery for cancers.
8. Describe the novel radiotherapy techniques for the treatment of anal cancer.
9. Discuss the principles and recent advances in the surgical treatment of obesity.
10. Using a cancer affected organ as a model, describe the role of deep learning, machine learning and artificial intelligence in its management.

(10 marks × 10 = 100 marks)

