

MANIPAL ACADEMY OF HIGHER EDUCATION
MS (GENERAL SURGERY) DEGREE EXAMINATION – JULY 2023

PAPER I

Monday, July 03, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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

✍ **Essay questions:**

1. 40 year old man undergoes laparotomy for perforated duodenal ulcer. On 4th day he develops fever and discharge of pus from the laparotomy incision site. What is your diagnosis and how do you suspect post-operative wound infection and how do you classify them? Discuss various factors responsible for such infections? Discuss how you prevent such infections.

(5+5+5 = 15 marks)

2. 70 year old man chronic smoker, with 3 months history of pain in the right calf region was referred to emergency triage with severe rest pain in the right foot of 15 days duration with color changes of toes of 3 hours duration. What is your diagnosis and how do you clinically prove your diagnosis? Discuss various causes which precipitate this condition. Discuss management of this patient.

(5+5+5 = 15 marks)

3. **Write short notes:**

- 3A. Principles of management of septic shock
3B. Hyperbaric oxygen in wound healing
3C. Surgical anatomy of flexor tendon sheath and acute suppurative tenosynovitis
3D. Non-surgical treatment principles of lymphedema lower limb
3E. Write various formulae used to calculate burns surface area.
3F. Management of thyrotoxic crisis
3G. Role of heparin in deep vein thrombosis of lower limb veins
3H. Methods to increase healing in neuropathic ulcers
3I. Pathology of tuberculous lymphadenitis
3J. Cell cycle and anti-cancer drugs

(7 marks × 10 = 70 marks)



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PAPER II

Tuesday, July 04, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all the questions.**

✍ **Draw illustrations wherever necessary.**

✍ **Essay questions:**

1. A 50 year old male, pan chewer and smoker visits surgery clinic with history of ulcer in the cheek for over a month and unable to open mouth. Enlist the premalignant lesions for oral malignancy. What are the investigations to be planned in the above case? Describe in detail about the treatment options.

(4+5+6 = 15 marks)

2. A 20 year old college student visits emergency room with acute onset breathlessness. On evaluation he is found to have an enlarged right testis with a swelling on left side of neck as well. What is the most likely diagnosis? What are the possible risk factors for this disease? Write the staging system for testicular tumors. Outline the management plan for the current case.

(2+4+4+5 =15 marks)

3. **Write short notes:**

3A. Primary hyperparathyroidism

3B. Diagnosis and management of testicular torsion.

3C. Management of anorectal malformations.

3D. Coronary artery bypass grafting and its outcome.

3E. Minimally invasive techniques to treat varicose veins.

3F. Allogenic renal transplantation- Pre-op preparation and post op management.

3G. Pedicled versus free myocutaneous flaps

3H. Diagnosis of acute appendicitis.

3I. Endoscopic retrograde cholangiopancreatography- Diagnostic & therapeutic uses in surgery

3J. Glasgow coma scale and implications in head injury.

(7 marks × 10 = 70 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
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PAPER III

Wednesday, July 05, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Draw illustrations wherever necessary.

✍ Essay questions:

1. A 50years old man presents to surgery opd with history of painless enlargement of left half of scrotum since 1month. On examination left testes was enlarged, hard in consistency, testicular sensation was lost. Abdominal examination no mass was palpable

1A. What will be your diagnosis?

1B. How do you evaluate him in detail?

1C. Describe various methods of treatment.

(3+5+7 = 15 marks)

2. An 60-year-old female presents to casualty triage with history of painful bleeding per rectum since 6 months. Per rectal examination revealed a ulcer proliferative growth at 5cm from anal verge extending circumferentially, upper edge was not felt. She passes mucus in stools every day.

2A. What is the diagnosis, how will you confirm it?

2B. What are the investigations to support your diagnosis and preoperative preparation for surgery?

2C. Treatment in detail.

(3+5+7 = 15 marks)

3. Short Notes:

3A. Endovenous Techniques in lower limb varicose veins.

3B. Describe localization studies and Minimally invasive parathyroidectomy in Primary hyperparathyroidism

3C. Novel technologies for Assessment of margins in breast cancer surgery

3D. Role of elective versus therapeutic neck dissection in clinically N0 cancers

3E. Endoscopic bariatric interventions

3F. Splenic preservation in abdominal trauma

3G. Informed consent for surgery

3H. Surgical aspects of gastrooesophageal reflux disease.

3I. Stapled haemorrhoidopexy.

3J. Treatment of varicocele

(7 marks × 10 = 70 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
MS (GENERAL SURGERY) DEGREE EXAMINATION – JULY 2023
PAPER IV

Thursday, July 06, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Draw illustrations wherever necessary.**

✍ **Essay Questions:**

1. Recent guidelines in management of acute pancreatitis. Add a note on contemporary management of infected pancreatic necrosis

(10+5 = 15 marks)

2. Discuss the concepts of enhanced recovery program. Add a note on components of enhanced recovery program in colorectal surgery

(10+5 = 15 marks)

3. **Write short notes:**

3A. Novel oral anticoagulants, their advantages and disadvantages

3B. Applications of intra operative ultrasound in abdominal surgeries

3C. Indications, applications and complications of spyglass cholangioscopy

3D. Narrow band imaging in upper gastrointestinal surgery

3E. Recent advances in management of gastroesophageal reflux disease

3F. Principles and practical applications of energy sources in surgery

3G. Scope of interventional radiology in gastrointestinal surgery

3H. Topical hemostatic agents in surgery

3I. Current recommendations in abdominal wall closure for elective midline laparotomy

3J. Current applications of third space endoscopy

(7 marks × 10 = 70 marks)

