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MANIPAL ACADEMY OF HIGHER EDUCATION
MS (GENERAL SURGERY) DEGREE EXAMINATION – JANUARY 2025
(REPEATER)
PAPER I

Tuesday, January 14, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Draw illustrations wherever necessary.

✍ Essay questions:

1. Describe the embryology, blood supply and lymphatic drainage of breast. Describe the action of various hormones on the breast throughout the life of the female. (15 marks)

2. Define surgical site infection. Describe strategies to prevent and treat surgical site infections. (15 marks)

3. Write short notes:

- 3A. Chronic pain management
- 3B. Macrolides-examples, mode of action, uses, toxicity
- 3C. Principles and safety of electro surgery
- 3D. DOTS strategy for TB control
- 3E. 'Medical Negligence'- Prevention and Protection.
- 3F. Abscess drainage techniques
- 3G. Disease mechanism in venous ulceration
- 3H. Madura foot
- 3I. Refeeding syndrome
- 3J. Kaposi's sarcoma

(7 marks × 10 = 70 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
MS (GENERAL SURGERY) DEGREE EXAMINATION – JANUARY 2025
(REPEATER)
PAPER II

Wednesday, January 15, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all the questions.**

✍ **Draw illustrations wherever necessary.**

✍ **Essay questions:**

1. A middle-aged lady presents to you with progressive dysphagia more for solid food than liquids. She has occasional vomiting. She has lost significant weight over last 6 months and unable to do her work due to tiredness. What could be possible diagnosis? What investigations would help you in diagnosis and evaluation of this patient? What are the treatment options available?

(2+5+8 = 15 marks)

2. A 40 year man is brought to casualty with history of binge drinking followed by profound vomiting and pain abdomen. On examination he is listless. Pulse rate of 140 bpm, blood pressure 100/60 mm of mercury. Patient has severe guarding all over abdomen and low urine output. What could be the differential diagnosis? How would you go about investigating this patient? What will be the treatment options for this patient?

(3+5+7 = 15 marks)

3. **Write short notes:**

- 3A. Narrow band imaging
- 3B. Insulinoma.
- 3C. Trachea esophageal fistula.
- 3D. Astrocytoma.
- 3E. Glasgow coma scale.
- 3F. Seminoma testis.
- 3G. Flail chest
- 3H. Renal tuberculosis.
- 3I. Chordee
- 3J. Empyema necessitans.

(7 marks × 10 = 70 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
MS (GENERAL SURGERY) DEGREE EXAMINATION – JANUARY 2025
(REPEATER)
PAPER III

Thursday, January 16, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Draw illustrations wherever necessary.**

✍ **Essay questions:**

1. A female patient around 40 years, obese, who is a mother of 4 children has severe abdominal pain located in epigastrium radiating to back, history of nausea, vomiting. On examination she has tachycardia, jaundice and severe tenderness with guarding in right hypochondrium, epigastrium and umbilical region. What are the differential diagnoses? How will you investigate and treat her?

(2+6+7 = 15 marks)

2. A 60 year old male patient chronic smoker, consuming alcohol for long duration, present with sudden vomiting of blood to emergency room. His relatives claim that considerable blood has been lost. Write the differential diagnosis for the above condition. How will you manage the above patient?

(2+6+7 = 15 marks)

3. **Short Answer:**

- 3A. Incidentaloma of adrenal gland – Evaluation and further management.
3B. Breast conservative surgeries with briefing on oncoplastic and reconstructive surgeries.
3C. Hyperparathyroidism – Types, investigation and treatment.
3D. Abdominal tuberculosis – Classification, management including surgeries.
3E. Outpatient procedures for hemorrhoids
3F. Premalignant condition of large bowel
3G. Day care surgery – Selection, pathway, management.
3H. Enterocutaneous fistula.
3I. Circumcision
3J. Spigelian hernia

(7 marks × 10 = 70 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
MS (GENERAL SURGERY) DEGREE EXAMINATION – JANUARY 2025
(REPEATER)
PAPER IV

Friday, January 17, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Draw illustrations wherever necessary.**

✍ **Essay Questions:**

1. Enumerate the modern absorbable and non-absorbable suture materials. Discuss their characteristics which modify wound healing. Write a note on prophylactic mesh augmentation.

(4+6+5 = 15 marks)

2. What is the role of sentinel lymph node biopsy in malignant melanoma patients? Discuss the management of melanoma patients with positive nodes. Enumerate the differences between cutaneous and mucosal melanoma

(4+7+4 = 15 marks)

3. **Write short notes:**

- 3A. Discuss the effects of virtual reality in relieving post-operative pain in surgical patients
3B. Outline the risk predictors in necrotizing fasciitis
3C. Discuss the recent advances in radiotherapy techniques for the treatment of anal cancer
3D. Current status of lung transplantation
3E. Three dimensional printing in surgery
3F. Per-oral pyloromyotomy for gastroparesis
3G. Different surgical dressings in reducing post-operative surgical site infection in a closed wound
3H. Recent advances in genetic modification of adenovirus vectors for cancer treatment
3I. Transoral endoscopic thyroidectomy vestibular approach
3J. Controversies and current management of Ductal Carcinoma in situ of the breast

(7 marks × 10 = 70 marks)

