



(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

(MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

**SECOND YEAR, SECOND TRIMESTER EXAMINATIONS
FOR THE DEGREE**

OF

BACHELOR OF SCIENCE IN PHYSIOTHERAPY

COURSE CODE: BSP 226

COURSE TITLE: GENERAL SURGERY II

DATE: FRIDAY 22ND APRIL 2022

TIME: 8:00-11:00 AM

INSTRUCTIONS TO CANDIDATES

Answer all Questions

Sec A: Multiple Choice Questions (MCQ) 20 Marks

Sec B: Short Answer Questions (SAQ) (40 marks)

Sec C: Long Answer Questions (LAQ) (40 marks)

TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 4 Printed Pages. Please Turn Over.

SECTION A: MULTIPLE CHOICE QUESTIONS

(20 Marks)

- Ischemic strangulation is an important complication associated with hernias. Which one of the following types of hernia is most often associated with strangulation of its contents?
 - Indirect inguinal hernia.
 - Direct inguinal hernia.
 - Femoral hernia.
 - Parumbilical hernia.
- What are the expected findings on urinalysis in patients with acute renal colic?
 - Blood cells more than pus cells
 - Pus cells if the infection was superadded
 - Crystals may appear
 - Normal urinalysis
- The best indicator of renal failure is?
 - Blood urea nitrogen level
 - Serum potassium level
 - Serum creatine levels
 - Urine creatine levels
- An 18-year-old male suffers a gunshot wound in the abdomen resulting to multiple injuries to the small bowels and colon. Which of the following statements best addresses the true concern the patient's perioperative management?
 - A multiagent antibiotic regime is indicated
 - Antibiotics should be continued postoperatively for at least 7 days
 - Laparotomy as a diagnostic test
 - The incidence of postoperative wound or intrabdominal infection would be increased with a colon injury
- Which nerve must be transected as part of a superficial parotidectomy?
 - The facial nerve
 - The hypoglossal nerve
 - The greater auricle nerve
 - The accessory nerve
- Which of the following is not a predisposing factor for a hernia?
 - Urinary stones
 - Chronic obstructive pulmonary disease
 - Obesity
 - Pregnancy
- Which of the following is not a complication fro inguinal hernia?
 - Irreducibility
 - Inflammation
 - Strangulation
 - Obstruction
 - Bleeding
- The following signs indicated toxic goiter except.
 - Flapping tremors of the hand
 - Exophthalmos + diarrhea
 - Menstrual irregularities
 - Diarrhea
- True statements about chronic duodenal ulcers do not include that they:
 - Are never malignant
 - Occur equally in both sexes
 - Produce epigastric pain several hours after eating

- D. Have a periodic clinical course
E. May heal medical treatment
10. In children and adolescents, the most common causes of intestinal obstruction is:
A. Strangulated hernias
B. Adhesions
C. Neoplasm
D. Paralytic ileus
11. The most common site for colon cancer is
A. Caecum
B. Ascending colon
C. Transverse colon
D. Descending colon
E. Sigmoid and rectum
12. Malunion may result in the following except
A. Angulation
B. Rotation
C. Elongation
D. Shortening
13. As regards open fractures all are correct except:
A. Gustilo classification is useful in determining the method of fixation
B. Would debridement means the removal of foreign bodies and devitalized tissues
C. Closure of skin wounds is always indicated
D. All bluish noncontracting nonbleeding muscles should be excises
14. ORIF is indicated in the following except:
A. Unstable fractures
B. Open fractures
C. With neurovascular injuries
D. Pathological fractures
15. The repair of a cleft lip should be done at which age?
A. 1 month
B. 3 months
C. 6 months
D. 1 year
16. The most frequent gastrointestinal complication of an extensive burn is
A. Acute gastritis
B. Paralytic ileus
C. Diarrhea
D. Acute dilation of the stomach
17. Which of the following is true about Langer's line of the skin?
A. These are in the direction of muscle fibers
B. These are perpendicular to the long axis of underlying muscle fibers
C. Most favorable incision is circular over an exposed area
D. Most favorable incision is a rhomboid shaped one over an exposed area
18. Which of the following is not true about keloids?
A. Keloid is excessive scar formation within and outside the boundaries of skin incision
B. The recurrence rate of keloid after excision is 10 – 20 %
C. Exact case of keloid formation is not known but fibroblast dysfunction is commonly attributed
D. Adjunctive treatment besides surgery gives the best results
19. Metabolic changes after burning are due to the following except
A. The endocrine responses to injury
B. Local fluid loss into the burnt area

- C. Reduced heat loss
- D. Increased insensible water loss
- E. Bacterial infection

20. Wound healing is not impaired by:

- A. Anemia
- B. Hypoproteinemia
- C. Ascorbic acid deficiency
- D. Cortisone administration
- E. Immunosuppressive therapy

SECTION B: SHORT ANSWER QUESTIONS

(40 Marks)

A 29-year-old woman attends the gynecological clinic with complaints of chronic pelvic pain. She has a body mass of 40 and a previous midline laparotomy for an ovarian cyst. Her name is placed in the waiting list for a diagnostic laparoscopy.

- 1) What risks should be discussed with her about the laparoscopy?
- 2) How would the risks of the laparoscopy be minimized in this woman?
- 3) Correlate the surgical incision with the layers to be opened during a vagotomy procedure
- 4) Discuss what the surgical procedure is about outline the different techniques that may be used
- 5) Differentiate between split partial skin grafts and full-thickness skin grafts
- 6) Examine the surgical interventions that may be performed after neurotmesis is diagnosed
- 7) Analyze the abortion techniques that may be used
- 8) Deliberate on the pathophysiology of inhalation burns

SECTION C: LONG ANSWER QUESTIONS

(40 Marks)

1. Mr. Kimitto 35 years of age has been treated for acute glomerulonephritis in early adulthood. He is presenting now with chronic glomerulonephritis
 - a. Explain the principles of peritoneal dialysis in relation to the treatment of renal failure (10 marks)
 - b. Reflect on your evidence-based management of Mr. Kimitto (10 marks)
2. You oversee the inpatient orthopedic ward and receive a physiotherapy request to see Mr. Owino today who has undergone an emergency lower limb amputation yesterday.
 - a. Elaborate of the possible surgical amputations that he may have undergone (10 marks)
 - b. What would be your physiotherapy management of Mr. Owino today? (10 marks)