



(University of Choice)

# MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

UNIVERSITY EXAMINATIONS  
2023/2024 ACADEMIC YEAR

THIRD YEAR, FIRST TRIMESTER, EXAMINATION

FOR  
THE  
DEGREE IN BSC. CLINICAL MEDICINE, COMMUNITY HEALTH  
AND SURGERY

**COURSE CODE: HCM 361/HPT 314**

**COURSE TITLE: MEDICINE II**

**DATE:** Wednesday 6<sup>th</sup> December 2023  
**Am**

**TIME:** 8:00 - 10:00

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**INSTRUCTIONS TO CANDIDATES**

Answer All Questions

Section A: Multiple Choice Questions (MCQ)

20 Marks.

Section B: Short Answer Questions (SAQ)

40 Marks.

Section C: Long Answer Question (LAQ)

40 Marks

**TIME: 2 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****Only One Answer is Correct – select the most correct answer**

1. The following is true about Diabetes Mellitus, except:
  - A. Insulin can be administered by injection
  - B. There is a strong genetic component
  - C. Was referred to as flat testing urine
  - D. Obesity can predispose to diabetes
  - E. Kidney damage is a consequence
  
2. About Type I Diabetes Mellitus include the following - except
  - A. Usually Insulin dependent
  - B. The majority are obese patients
  - C. Can result from chronic pancreatitis
  - D. Include children with diabetes
  - E. Oral hypoglycemic may be used in addition to insulin
  
3. The following is true of the thyroid gland - except
  - A. Secretion of T3 and T4
  - B. Activity dependent on TSH
  - C. Controls the levels of ACTH
  - D. Requires Iodine for proper functioning
  - E. Can enlarge into a goitre
  
4. The following is true of phaeochromocytoma - except
  - A. Kidney damage can result from the disease
  - B. A tumour of the supra-renal glands
  - C. 24 hr urinary estimate of VMA
  - D. Disorder occurs only in men and postmenopausal women
  - E. Often characterized by wide swings in measured blood pressure
  
5. Which of the following is not true about Cushing's disease
  - A: An orange on a matchstick
  - B: Treatment with prednisolone
  - C: Tumour of the Adrenal cortex
  - D: Bleeding tendency .
  - E: Excessive activity of MSH
  
6. Risk factors for Gastro -esophageal reflux disorders include the following except
  - A. Smoking
  - B. Alcohol use
  - C. Obesity
  - D. Infection with H pylori
  - E. Diet of kales and onions



7. Which of the following is not true about Peptic Ulcer Disease
  - A. Antacids can interfere with other medications
  - B. The use of Proton Pump Inhibitors is contraindicated
  - C. Milk ingestion may make the situation worse
  - D. Major changes in diet are not required
  - E. Stress is not necessarily a major cause of ulcers
  
8. ORS for diarrheal diseases may contain any of the following except
  - A. NaCl
  - B. KCl
  - C. Glucose
  - D. Sucrose
  - E. Magnesium sulfate
  
9. The following organisms frequently cause UTI
  - A. Escherichia coli
  - B. Pseudomonas aeruginosa
  - C. Neisseria gonorrhoea
  - D. Chlamydia trachomatis
  - E. None of the above
  
10. The following are produced by the Pituitary glands, except
  - A. T3 and T4
  - B. TSH
  - C. MSH
  - D. Oxytocin
  - E. ACTH
  
11. The following are correct about gastroenteritis diseases in children -except
  - A. Dehydration can be life threatening
  - B. Kidney failure can result
  - C. Fluid therapy is the hallmark
  - D. Probiotics are not helpful
  - E. Oral Zinc Sulphate is indicated
  
12. Liver Disease may be due to the following except
  - A. Alcohol use disorder
  - B. Abnormal deposit of copper in the liver
  - C. Viral Hepatitis
  - D. Smoking
  - E. Too much red meat
  
13. Risk to develop pancreatitis include the following except
  - A. Females > Males
  - B. Heavy drinkers
  - C. Smoking
  - D. Gallstones
  - E. Obesity

14. Acute Kidney Injury biochemistry include the following except
- A. Creatinine high
  - B. Bicarbonates high
  - C. Potassium high
  - D. Urea high
  - E. Sodium high
15. The following are true about Chronic Kidney Disease except
- A. Develop gradually months to years
  - B. Nephrotoxin exposure
  - C. Acute Gastroenteritis with dehydration
  - D. Hypertension
  - E. Diabetes Mellitus
16. UTI is associated with the following except
- A. Frequency
  - B. Strangury
  - C. Dysuria
  - D. Diaphoresis
  - E. Nocturia
17. The management of UTI include the following except
- A. Antimicrobial drugs
  - B. Acidification of urine is helpful
  - C. Moderate Exercise
  - D Drinking plenty of water
  - E Frequent urination habits
18. The following is true about Hepato-celluar Carcinoma (HCC), except
- A: HCC is preventable
  - B: Hepatitis B virus is causal
  - C: Results from acute liver injury
  - D: Liver cirrhosis may precede
  - E: Prognosis without liver transplant is poor
19. About thyrotoxicosis, what is not true?
- A: T3 and T4 are elevated
  - B: TSH is low
  - C: Carbimazole is indicated
  - D: Propranolol is beneficial
  - E: Laevothyroxin should be administered
- 20: The following is true about disorders of the pituitary gland – except
- A: Infertility in men can be a consequence
  - B: Acromegaly may result from pituitary adenoma
  - C: Excessive milk production can occur
  - D: Pregnancy is sometimes associated with pituitary hemorrhage
  - E: Sheehan’s syndrome is unrelated event

**Section B: Short Answer Questions (SAQ's)****40 Marks.**

Answer all Questions in this section

1. Briefly describe chronic pancreatitis 5 marks
2. List possible complications of pheochromocytoma 5 marks
3. List 5 treatment approaches to Peptic Ulcer Disease 5 marks
4. Describe briefly consequences of too much cortisol 5 marks
5. Describe briefly treatment of hyperthyroidism 5 marks
5. Describe the management of diarrhoea in children 5 marks
6. List the differences between Acute Kidney Injury and Chronic Kidney Disease 5 marks
7. Explain Addison's disease 5 marks.
8. Describe briefly diabetes insipidus 5 marks

**SECTION C: LONG ANSWER QUESTIONS****(40 MARKS)**

1. Discuss the aetiology, diagnosis, treatment and prevention of GERD (20 marks)
2. Discuss the causes, diagnosis, treatment and prevention of UTI (20 marks)

