

(University of Choice)

MASINDEMULIROUNIVERSITY OF

SCIENCE AND TECHNOLOGY

(MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2020/2021 ACADEMIC YEAR

THIRD YEAR, FIRSTTRIMESTER DIRECT/UPGRADING EXAMINATION

FOR THE DEGREE

OF

BACHELOR of Science In Clinical medicine

COURSE CODE: HCM 361.

COURSE TITLE: MEDICINE II

DATE: MONDAY 19TH APRIL, 2021

TIME: 9.00-12.00 NOON

INSTRUCTIONS TO CANDIDATES

Section A: Multiple choice questions (CHOOSE THE BEST ANSWER IN SECTION A)

Section B: Short Answer Questions Sections C: Long Answer Questions

Attempt all questions

SECTION A-MCQ (BEST ANSWER QUESTION). (20MKS).

- 1. The following in relation to GERD are all true EXCEPT
 - a) Can be treated first with proton pump inhibitors
 - b) 24-hr PH monitoring is the best test
 - c) OGD is done when PPIs fail
 - d) Nissen Fundoplication is the best treatment
- 2. Which of the following is **NOT TRUE** concerning achalasia
 - a) Dysphagia to both solid and liquid foods
 - b) Progressive dysphagia from solid then liquid foods
 - c) Manometry is the best diagnostic test
 - d) Bird's beak deformity on barium swallow
- 3. Which of the following is **NOT TRUE** concerning chronic pancreatitis
 - a) CT abdomen shows calcification
 - b) Can present with diabetes mellitus
 - c) Can present with steatorrhea
 - d) Pancreatic pseudocyst is a complication
- 4. The following are causes of gastroparesis **EXCEPT**
 - a) Systemic sclerosis
 - b) Hypothyroidism
 - c) Diabetes mellitus
 - d) Esophageal cancer
- 5. The following is **NOT** a complication of peptic ulcer disease
 - a) Perforation
 - b) Gastric outlet obstruction

	c)	Bleeding
	d)	Diarrhea
6.	The ma	anagement of peptic ulcer disease (PUD) includes the following EXCEPT
	a)	Proton pump inhibitors
	b)	Triple therapy
	c)	Nissen Fundoplication
	d)	Quadruple therapy
7.	The ca	nuses of chronic diarrhea usually DOES NOT include the following
	a)	Hyperthyroidism
	b)	Hypothyroidism
	c)	Addison's diseases
	d)	Diabetic Autonomic Neuropathy
8.	Whicl	n is the <u>BEST</u> initial test for acute pancreatitis
	a)	Lipase
	b)	CT abdomen
	c)	Abdominal Ultrasound
	d)	Amylase
9.	Whic	h is the BEST initial test for chronic pancreatitis

MEDICINE II.

a) CT abdomen

d) ERCP

a) E.coli

b) Lipase and/or amylase

c) Abdominal ultrasound

10. Which of the following is \underline{NOT} a cause of bloody diarrhea

- c) Salmonella
- d) H-pylori bacteria
- 11. Which of the following is **NOT TRUE** concerning acute liver failure
 - a) ALT/AST raised
 - b) Coagulopathy
 - c) Encephalopathy
 - d) Portal hypertension
- 12. Which one **BEST** defines acute liver failure
 - a) Encephalopathy, coagulopathy and reduced albumin
 - b) Encephalopathy, reduced INR, elevated ALT and AST
 - c) Altered mental state, raised INR, elevated ALT
 - d) Encephalopathy, coagulopathy, jaundice and reduced serum proteins
- 13. Which is one is TRUE concerning chronic liver disease
 - a) ALT/AST may be normal
 - b) ALT/AST is often elevated
 - c) Albumin is often normal
 - d) Often both AST and ALT elevated with AST>ALT (2:1)
- 14. The following is **NOT TRUE** concerning Autosomal Recessive (AR) pattern of inheritance
 - a) Skipping of generation
 - b) No gender bias
 - c) Both parents are carriers
 - d) Only one parent is a carrier
- 15. The following is **NOT TRUE** concerning Autosomal Dominant pattern of inheritance
 - a) Heterozygous will be diseased

- b) 50% will have the disease and 50% be normal
- c) No gender bias
- d) Skipping of generation
- 16. The following is **NOT TRUE** concerning the criteria for the diagnosis of DM
 - a) HBA1C ≥6.5%
 - b) Fasting Plasma Glucose (FPG) >7mmol/L
 - c) 2-hPG >11.1mmol/L during an OGTT
 - d) Random Blood Sugar (RBS) <11.1mmol/L
- 17. Which of the following is **NOT TRUE** concerning Type 1 diabetes mellitus (T1DM)
 - a) Onset always in childhood
 - b) Is due to absolute insulin deficiency
 - c) Autoimmune in nature
 - d) Associated with Anti-glutamic acid decarboxylase (GAD) and islet cell antibodies
- 18. Concerning a case of Diabetic Ketoacidosis (DKA) which of the following is **NOT**TRUE
 - a) Occurs in type 1 diabetes mellitus
 - b) pH<7.3, HCO3<15, ketones in urine or capillary
 - c) ABGs will show metabolic acidosis
 - d) ABGs will show metabolic alkalosis
- 19. The following are all true concerning thyroid disease **EXCEPT**
 - a) Clinical hypothyroidism: TSH high, T3 and T4 low
 - b) Clinical hyperthyroidism: TSH low, T3 and T4 high
 - c) Subclinical hypothyroidism: TSH high, T3 and T4 normal
 - d) Subclinical hypothyroidism: TSH low, T3 and T4 normal
- 20. The following is **NOT TRUE** about diabetes insipidus

- a) Polyuria, polydipsia, hypernatremia and hyperglycemia
- b) Polydipsia, polyuria, hypernatremia and normoglycaemia
- c) Polyuria, polydipsia, hypernatremia with hypokalemia
- d) Polyuria, polydipsia and hypernatremia with a brain disease

SECTION B. SHORT ANSWER QUESTIONS (40 MKS).

- 1. Concerning a case of upper gastrointestinal (GI) bleeding:
 - a. Define upper gastrointestinal bleeding (2 marks)
 - b. List FOUR (4) common causes of upper GI bleeding (2 marks)
 - c. How will you investigate this case (6 marks)
- 2. A 45 year old alcoholic is suspected to have liver cirrhosis:
 - a. How will you investigate this case (6 marks)
 - b. List **FOUR** (4) other causes of liver cirrhosis (4 marks)
- 3. Concerning hereditary disorders
 - a. Define autosome and sex chromosomes (2 marks)
 - b. List **FOUR** (4) conditions that are autosomal dominant 4 marks)
 - c. List **FOUR** (4) conditions that are autosomal recessive (4 marks)
- 4. Concerning a case of Cushing syndrome
 - a. State the clinical features of a Cushing syndrome (4 marks)
 - b. State the first line investigations (screening test) to be done (2 marks)
 - c. State the second line investigation (confirmatory test) if any of the 1st line test is positive (2 marks)
 - d. State the third line investigation (localization tests) to find where the lesion is (2 marks)

SECTION C. LONG ESSAY QUESTIONS (40 MKS).

- 1. A 50 year old man is suspected to have a type 2 diabetes mellitus (T2DM).
 - a. How will you investigate this case (10marks)
 - b. Which acute and chronic complications is he likely to develop (10 marks)
- 2. A 40 year old fat, fair, female patient presents with epigastric pain radiating to the back and a diagnosis of acute pancreatitis is made:
 - a. How will you investigate this case (10)
 - b. What conservative treatment will you prescribe for her (5 marks)
 - c. What complications is she likely to develop (5 marks)

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