UGANDA MARTYRS UNIVERSITY FACULTY OF HEALTH SCIENCES

BACHELOR OF SCIENCE IN PUBLIC HEALTH

EXAMINATION YEAR ONE SEMESTER II ACADEMIC YEAR 2021/2022

BSPH1202: INTRODUCTION TO NON-COMMUNICABLE DISEASES

DATE: 22nd July, 2022 TIME: 2:00pm-5PM

Instructions

- 1. Follow instructions per section
- 2. Indicate your registration number on each answer script used
- 3. Clear legible hand writing is a MUST
- 4. Attempt ALL questions
- 5. NO examination related material should leave the examination room

SECTION A: MULTIPLE CHOICE/TRUE-FALSE QUESTIONS (20 marks)

For questions 1-10, Circle the corresponding most correct answer

6. The drug of choice in treatment of diabetes mellitus type II is?

7. Type III diabetes mellitus is also known as?

a. Glibenclamide

b. Insulin

ैं	a questions I Ivy on the time to the representation		
	What is the diagnostic test in cancer of the cervix?		
	a. PAP smear	c. Visual inspection under acetic acid	
	b. Visual inspection under lugol iodine	d. Biopsy with histological exam	
2.	Screening for cancer of the cervix commences?		
	a. < 18 years	c. >25 years	
	b. 18-25 years	d. At any age	
	IN which age range is cervical cancer vaccine recommended?		
	a. 9-13 years	c. Any female < 18 years	
	b. 6-18 years	d. All the above qualify	
1.	Which of the following is not a modifiable factor for cancer of the breast?		
	a. Contraceptive use	c. Family history	
	b. Age at first sexual intercourse	d. Density of breast tissue	
5.	Which of the following BMI values corresponds to morbidly obese?		
	a. <25	c. >35	
	b. >40	d. 25-30	

c. Metformin

d. Arcabose

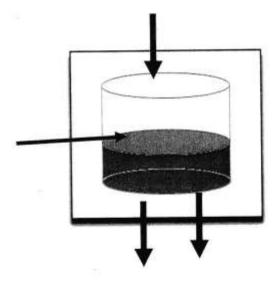
	a.	Gestational diabetes mellitus	c. Pancreatic diabetes
	3700-	Non-insulin dependent diabetes	
8.	What is the diagnostic gold standard for cancer of the prostate?		
0.		2004 MB - 1804 - 18 - 18 - 18 - 18 - 18 - 18 - 18 - 1	c. Truncut biopsy
		PSA Transurethral resection	d. Abdominal ultrasound scan
0	2012/01		
9.		pesity diagnosis is by the following exc	c. Lipid profile
	a.	21250 2040 001 20 H 15 C 2 C 50	
		Mid-upper arm circumference	d. Blood glucose
10	. W		e symptom in Benign Prostate hypertrophy?
	a.	Dysuria	c. Lower back pain
	11,555	Hematuria	d. Dribbling
11		hich strain of HPV is commonly assoc	
	a.	16	c. 16 & 18
	b.	18	d. 45
F	or q	uestions 12-20, Write T for True or F	for False against each of the statements
12	. Ra	andom blood sugar test in a suspected	DM patient is a good example of primary prevention
	-		
13	. A	ll forms of cervical cancer are not caus	ed by Human papilloma virus
14	. Tl	he hepatic islet of Langerhans beta cell	s produce insulin
15	5. If the body weight is 100 kgs and height is 400 cm the BMI corresponds to morbid		
		pesity	
16	i. In	dissemination of information, selection	on bias cannot affect quality of results
	7. H		likelihood of causing renal disease as compared to
18	8. R	isk aversion in non-communicable disc	eases is an example of primary prevention
19	9. E	rectile dysfunction is a common macro	-vascular complication in diabetes
21). T	ype II DM should exclusively be mana	ged with oral hypoglycemic drugs
<u>s</u>	EC'	TION B: STRUCTURED QUESTIO	ONS (40 marks)
F	ïll i	in the spaces provided in response to the	he questions
2	1. L	ist the two major forms of chronic con	aplications in diabetes mellitus (2 marks)

i.

22. List	the cut off values for the following in a PRE-DIABETIC patient (2 marks)
i.	Fasting blood sugar
ii.	Glycated hemoglobin
23. As a	public health practitioner, Surveillance is one of the ways to keep NCD burden of disease
in ch	neck. List 2 types of surveillance systems that can be used to this effect (2 marks)
i.	***************************************
ii.	
24. The	best proxy measure to assess how much insulin a Diabetic patient is producing over the
dura	tion of treatment is (1 mark)
25. With	n exception of incidence and prevalence, list 3 ways of assessing burden of NCDs (3 marks)
i.	***************************************
ii.	
iii.	

SHORT ESSAY QUESTIONS

 Study the figure below used to illustrate trends on a given NCD and answer the questions below; (10 marks)



- a. Name the different parts indicated by the arrows (4 marks)
- b. What name is given to the above figure (2 marks)
- c. Briefly explain how the different components of the figure relate (4 marks)
- 27. You are called to give a health education talk on non-communicable diseases to first year freshers at a university in the city center Kampala. Briefly explain how you would articulate the following;

- Safe male circumcision decreases the life time risk of partner cervical cancer (5 marks)
- b. Low cholesterol diet decreases risk of coronary artery disease (5 marks)
- 28. The Population of Kasensero on March 30, 2022 was 183,000. The District health statistics show that the Number of new Diabetes Mellitus type 2 cases occurring between January 1 and June 30, 2022 was 26 and the number of DM cases on June 30, 2022 was 264
 - Calculate the incidence rate of Diabetes mellitus in the 6-month period (5 marks)
 - b. Calculate the prevalence rate of Diabetes mellitus as of June 30, 2022 (5 marks)

SECTION C: ESSAY QUESTIONS (40 Marks)

- 29. Policy is very key in addressing the current increasing burden of NCDs. Using the policy triangle, illustrate how you would address the rising burden of Diabetes mellitus in your community (10 marks)
 - c. Briefly describe any 5 barriers and enablers for success of the above policy (10 marks)
- 30. During a health community outreach camp, you are involved in, a 35-year-old Mr. Kasibante presents to you with complaints of fatigue and occasional episodes of headache. He denies having excessive thirst, increased micturition or appetite. You decide to weigh him and find he has 100 kgs and a height of 175 centimeters. His blood pressure is 140/80 mmHg. He intimates that he has results from some tests in ran during his last visit to the health center IV 3 months ago but was unable to get feedback from the Dr who left before he returned from the laboratory.

CHO-5.9 mmol/l (3.7-5.2)

HDL-C 0.95 mmol/l (1.03-1.55)

LDL-C 4.4 mmol/l (0.0-2.6)

TGA-1.2 mmol/l (0.0-1.7)

FBS 6.5 mmol/l

OGTT 7.7mmol/l

- Keeping the history in mind, interpret Mr. Kasibante's results (4 marks)
- List one investigation you would recommend at this point to confirm the principle diagnosis (1 marks)
- Write down a management plan for this patient (consider using the mnemonic) (15 marks)