

Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF MEDICAL SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF MEDICAL LABORATORY SCIENCES

BMLS 13M

AML 4313 : EPIDEMIOLOGY

SEMESTER EXAMINATION

APRIL 2014 SERIES

2

HOURS

Instructions to candidates:

This paper consists of **TWO** sections **A** and **B Section A** -Contains MCQS, Answer **ALL** questions in **Section B**.

SECTION A - MCQs - (30marks)

- 1. Which of the following is an example of a non modifiable risk factor for coronary heart disease
 - a) Diet high is cholesterol
 - b) Hypertension
 - c) Alcohol intake
 - d) Physical inactivity
 - e) Age above 50 years
- 2. Which of the following are non modifiable risks factors for diabetes mellitus?
 - a) Diet high in cholesterol
 - b) Male sex
 - c) Alcohol intake
 - d) Genetic factors
 - e) Physical inactivity
- 3. Which of the following terms describes the time from infection to development of symptomatic disease
 - a) Symptomatic period

- b) Latent period
- c) Incubation period
- d) Infectious period
- e) Hibernation
- 4. Which of the following terms describes the time interval from infection to development of infectiousness
 - a) Incubation period
 - b) Symptomatic period
 - c) Latent period
 - d) Infectiousness period
 - e) None of the above
- 5. The following method sare part of the basic epidemiologic methods except
 - a) Count cases (events)
 - b) Define involved population
 - c) Make inferences
 - d) Field investigation
 - e) Compare rates
- 6. The following are key words in the definition of epidemiology except?
 - a) Distribution
 - b) Study
 - c) Application
 - d) Determinant
 - e) Policy
- 7. Who among the following people is considered the father of field epidemiology?
 - a) William Farr
 - b) John snow
 - c) John Gaunt
 - d) David Livingstone
 - e) Hippocrates

- 8. Which of the following terms describe a sudden increase in the number of cases of a disease above what is normally expected
 - a) Epidemic
 - b) Pandemic
 - c) Cluster
 - d) Endemic
 - e) Sporadic
- 9. An aggregation of cases grouped in place and time
 - a) Epidemic

- b) Pandemic c) Cluster d) Endemic e) Outbreak refers to a disease that occurs infrequently and irregularly a) Cluster b) Sporadic c) Endemic d) Epidemic e) Pandemic Refers to the amount of a particular disease that is usually present in a community a) Cluster b) Sporadic c) Endemic d) Epidemic e) Pandemic 12. The following terms are among the host factors in the epidemiologic Triad except a) Food sources b) Lifestyle c) Marital status d) Exercise e) Behaviour 13. The following terms include the environmental factors influencing the exposure of a hosts to disease causative agents except? a) Noise b) Trauma c) Social economic factors d) Air quality e) Disease vectors 14. The following terms include the agent factors influencing the development of a health related event except
 - a) Physical forces
 - b) Pathogenicity
 - c) Religion
 - d) Nutrition
 - e) Radiation
- 15. Which one of the following diseases is an example of a zoonotic disease?
 - a) Anaemia
 - b) Rabies
 - c) Typhoid
 - d) Gonorrhea
 - e) Arthritis
- 16. Which one of the following is not a characteristics of a non communicable disease

- a) Functional impairment
- b) Indefinite sunset
- c) Known etiology
- d) Prolonged course of illness
- e) Indefinite onset
- 17. Which of the following is an example of an intervention study design
 - a) Clinical trial
 - b) Cohort study
 - c) Case control study
 - d) Cross sectioned study
 - e) Case series
- 18. Which one of the following is an example of a descriptive study design
 - a) Clinical trial
 - b) Cohort study
 - c) Case control study
 - d) Cross sectional study
 - e) None of the above
- 19. Which one of the diseases has the human host as a reservoir of its causative
 - a) Syphilis
 - b) Sickle cell anaemia
 - c) Pelvic cancer
 - d) Hepatitis
 - e) Ebola
- 20. Which of the following diseases has an animal as a reservoir of its causative agents
 - a) Malaria
 - b) Diabetes insipidus
 - c) Typhoid
 - d) Rabies
 - e) None of the above
- 21. Which of the following disease has the environment as a reservoir of its causative agent
 - a) HIV/AIDs
 - b) Diabetes mellitus
 - c) Cholera
 - d) Pelvic cancer
 - e) None of the above
- 22. Which of the following study designs selects individuals on the basis of disease status
 - a) Clinical trial
 - b) Cohort study
 - c) Case control study
 - d) Cross sectional study
 - e) Thallasenia

- 23. Which of the following provides a "soap short" of health experience
 - a) Clinical trial
 - b) Cohort study
 - c) Case control study
 - d) Cross sectional study
 - e) Case series
- 24. Which of the following is an advantages of cohort studies?
 - a) Is relatively quick
 - b) Is in expensive
 - c) Is well suited to evaluate disease with long latency period
 - d) Is of value when exposure is rare
 - e) None of the above
- 25. Which one of the following is an example of a communicable disease?
 - a) Diabetes mellitus
 - b) Coronany heart disease
 - c) Hypertension
 - d) Dysentery
 - e) Breast cancer
- 26. Which one of the following is a component of the epidemiologic triad
 - a) Time
 - b) Place
 - c) Agent
 - d) Person
 - e) Disease
- 27. Factors contributing to emergence of infectious disease include the following example
 - a) Human demographics and behaviour
 - b) Economic development and land use
 - c) Disease surveillance
 - d) Break down of public health measures
 - e) Marital status
- 28. Which one of the following describe a determinant as used in the definition of epidemiology
 - a) Are the factors that influence the occurrence of health related events
 - b) The occurrence of health related events by time, place and person
 - c) Anything that affects the well being of a person
 - d) Time during which a host can infect another host.
 - e) Host of an infectious disease
- 29. The following include steps in outbreak investigation except
 - a) Verify diagnosis
 - b) Define a case
 - c) Develop hypothesis
 - d) Prepare report
 - e) Design drugs for treatment

- 30. The following are objectives of outbreak investigation except
 - a) To control ongoing outbreaks
 - b) T prevent future outbreaks
 - c) To advance knowledge about a disease
 - d) To provide training opportunities
 - e) None of the above

SECTION B ESSAY (ANSWER ALL QUESTION IN THIS SECTION)

1.	(a) (b)	1 65	10 marks) 10 marks)
2.	(a)	Describe the factors that can increase prevalence (10 marks)
	(b)	Describe a case control study design and give its advantages and disadvantage	ges
			(10

marks)