UNIVERSITY OF NAIROBI

BACHELOR OF MEDICINE AND BACHELOR OF SURGERY CONTINOUS ASSESSMENT TEST

COMMUNITY HEALTH

DATE: 24TH MARCH, 2006

TIME: 14.00 - 16.00 HRS

INSTRUCTIONS

- Read the instructions carefully.
- 2. This paper contains 120 MULTIPLE ANSWER QUESTIONS
- 3. (a) Circle the correct answer
- A 1. At which point in a communicable disease process is the agent most vulnerable?
 - (a) Reservoir
 - (b) Exit from reservoir ×
 - (c) Transmission
 - (d) Entry into host x
 - (e) Agent in the host ×
- c 2. Currently the most effective measure in the control of malaria is:
 - (a) Chemotherapy x
 - (b) Chemo prophylaxis x
 - © Proper use of ITNs
 - (d) Environmental sanitation
 - (e) Vaccination ×
- 8 3. Leishmaniasis in Kenya is all of the following except:
 - (a) *Phlebotomus martiin* is the intermediate host T
 - (b) Can be an occupational hazard F
 - (c) The dog is the reservoir ↑
 - (d) Is related to termite hills ⊤
 - (e) There is effective chemotherapy T

E 4.	REGISTRATION NO Factors in transmission of Schistosomiasis include the following except:
	(a) Water contact for domestic purposes
	(b) Water contact for economic purposes
	(c) Contamination of the water
	(d) Presence of snails in the water
	© Drinking contaminated water F
D 5.	Helminthic infections can be prevented by all of the following except:
	(a) Proper human waste disposal T
	(b) Good personal hygiene T
	(c) Wearing shoes
	d Chemoprophylaxis 🗸
	(e) Hygiene in public places T
C 6.	All of the following are true of transmission of diarrhoeal diseases except:
	(a) Water may be an important reservoir T
	(b) Food maybe an important vehicle ⊤
	© The housefly is an important intermediate host F
	(d) Fingers maybe important T
	(e) Food handlers maybe important reservoir ⊤
B 7.	Zoonoses is all of the following except:
	(a) Principally diseases of animals
	(b) Principally diseases of humans T
	(c) Can cause epidemics
	(d) Can cause epizootics
	(e) May follow environmental degradation
8 8.	Viral haemorrhagic fevers are all of the following except:
	The property of the Control of the C

- (b) All have known reservoirs F
- (c) Management is principally supportive \top
- (d) May present a special hazard to health workers $\ \ \mathcal{T}$
- (e) May be occupational hazards T

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- D 9. The following is true of Viral Hepatitis except:
 - (a) Faeco-oral transmission T "vowels are bowels"
 - (b) Parenterall transmission T
 - (c) May lead to hepatocellular carcinoma T
 - (d) Effective vaccines are available for all types Fno for c d and e
 - (e) Principally a human infection T
- 8 10. Meningococcal meningitis is all of the following except:
 - (a) Cause epidemics Tcrowded places
 - (b) Animal reservoirs are important in maintenance F
 - (c) Transmission is by droplet spread T yepppp
 - (d) 'Oily' chloramphenicol (Tifomycin) has a role. There is a role Given for 5 days, as effective as penicillin
 - (e) Vaccinations are important T yes important
- 11. The following is true of Tuberculosis except:
 - (a) Prolonged close contact is important for transmission \(\) yes
 - (b) HIV infection is a risk factor for development of TB disease yes
 - © Short-course chemotherapy plus DOTS regimens are recommended
 - (d) Stigma is a principal obstacle to effective prevention 7 yes
 - (e) BCG should not be given to children with HIV 7 dont give im active
- 8 12. The statement that economics stems from the inescapable concept of Scarcity means that:
 - (a) Economists have their own language
 - (b) Every one and every system has more needs than the available resources to meet them \checkmark
 - (c) Markets always have shortages of goods and services F
 - (d) The health sector inputs are sometimes missing
 - (e) Shortages in delivery of health care are inevitable
- C 13. The main actors in an economic system are generally categorized as:
 - (a) Government, Ministry of Health, the traditional sector and Donors
 - (b) Government, industrial sector, public service and the rural populations
 - (c) Producers, consumers and government /
 - (d) Donors, government, industrialists, populations at large
 - (e) Investors, social services sector, Ministry of Health

- 14. National Accounts contribution of the health sector is assessed by:
 - (a) Adding up the monetary value of services and commodities that are produced by individuals and institutions in the sector during the year of accounting
 - (b) Costing all the diseases that have been treated during the year of accounting
 - (c) Adding up all the salaries of the medical personnel
 - (d) The value of budgetary allocation by the Ministry of Finance
 - (e) The value of budgetary allocation by Ministry of Finance plus donor funding
- 15. In a production process of goods or services marginal costs refer to:
 - (a) Costs of inputs in a production process
 - (b) Costs each item of output -> and grants
 - (c) Cost of producing an extra item of output
 - (d) Costs of distributing the product to the consumers
 - (e) Increase in management allowances for raising the profit margin
- a. 16. In the public health sector, cost sharing was introduced for two main purposes:
 - (a) To generate revenue and control frivolous demand for services
 - (b) To raise salaries for health workers and introduce community participation
 - (c) To increase quality of care and improve management of public institutions
 - (d) To excuse the government from paying for primary health care and transfer the responsibility to the community.
 - (e) To buy drugs and generate overtime payment for workers who stay late in the hospitals.
- C17. The concept of Consumer Ignorance in the use of health care refers to:
 - (a) Situation where patients do not know the doctors and nurses who provide them with care
 - (b) The patients have very low levels of education
 - (c) The patients do not fully know the type, amount or quality of care that they may be looking for
 - (d) Situation where households are not known to the providers of care
 - (e) The fact that health care providers may not be willing to share information with the patients.

- 18. In HACCP terms, critical control point means
 - (a) Any point in a specific food system at which loss of control does not result to unacceptable health risk
 - (b) A point at which loss of control may result in an acceptable health risk
 - (c) Failure to meet a required critical limit for a critical control point
 - The maximum or minimum value to which a hazard must be controlled to minimize the risk
 - (e) A point at which chemical and physical hazards are controlled
- Prior to handling food and after use of toilet it is mandatory to washing hands with water and soap because:
 - (a) The soap contains active ingredients
 - (b) The soap has bacteriocidal properties
 - (c) The soap has hydroxide peroxide
 - (d) The soap has sanitizing properties
 - (e) The water has residual effect ← F
- © 20. In a conventional water treatment works, the sequential procedure is as follows:
 - (a) Coagulation, sedimentation, chlorination and filtration ×
 - (b) Sedimentation, coagulation chlorination and filtration ×
 - (c) Coagulation, sedimentation, filtration, chlorination /
 - (d) Filtration, sedimentation, coagulation and chlorination ×
 - (e) Chlorination, coagulation, filtration and addition of alum ×
- 8 21. Which of the following agrochemical is known to inhibit acetylcholinesterase?
 - (a) Dieldrin

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- (b) Malathion
- (c) Methylbromide
- (d) Sevin
- (e) Pyrethroid

23. Biological oxygen demand is an indication of:

(e) Below 0°C or above 45°C

- (a) number of micro-organisms in 100ml of water
- (b) amount of biodegradable organic matter in an effluent
- (c) amount of oxygen required by aquatic organisms
- (d) amount of sewage drained into a river
- (e) Amount of faecal matter in an effluent.
- 24. All of the following are true about VIP pit latrines except:
 - (a) Has reduced smell
 - (b) Has a flue pipe
 - (c) Has reduced fly nuisance
 - (d) Easy to use
 - (e) The cheapest of all types of latrines
- 25. Which of the following is the correct series of stabilization pond system?
 - (a) Anaerobic, facultative, maturation
 - (b) Facultative, Anaerobic, maturation
 - (c) Anaerobic, , maturation, Facultative,
 - (d) Aerobic, maturation, facultative
 - (e) Maturation, aerobic, in-aerobic
- 26. The major gaseous element involved in ozone depletion is:
 - (a) carbon
 - (b) chlorine
 - (c) fluorine
 - (d) bromine
 - (e) sulphur

- 27. All of the following are associated with the London smog of 1952 except:
 - (a) death of more than 4000 people T
 - (b) mortality was mainly due to respiratory symptoms T
 - (c) mortality was mainly among the young and the aged T
 - (d) Nitrogen dioxide and sulphur were main causes of death
 - (e) Meteorological phenomenon was the primary cause of the smog T
- 28. All of the following are true about acid rain except:
 - (a) Caused by emissions of sulphur dioxide to the atmosphere
 - (b) Causes die back disease of forest
 - (c) May contribute to globa warming
 - (d) Decreases productivity of rivers and lakes
 - (e) May influence absorption of toxic metals through the food chain.
- ∠ 29. Which among the following is not a health management concern?
 - (a) Inequitable distribution of health resources, with the minority receiving the highest proportion. T
 - (b) Hospital-based curative services requiring highly trained personnel and expensive equipment have received the greatest amount of attention sidelining preventive care services. \(\bar{\tau}\)
 - (c) Efficient and effective expanded programme on immunisation.
 - (d) Lack of intersectoral collaboration in planning and implementation of health programs. (
 - (e) Lack/minimal community involvement at different levels. T
 - 30. Supervision entails all the following except:
 - (a) Setting realistic goals;
 - (b) Assist staff to meet their goals.
 - (c) Identify training needs for staff.
 - (d) Reprimanding those who do not perform well in their work.
 - (e) Enhance personal development especially confidence

- 31. Which among the following is not a correct description of an organization?
 - (a) Mechanisms for distributing tasks.
 - (b) Establishing departments.
 - (c) Giving instructions to a group of workers.
 - (d) Centralising or decentralizing activities.
 - (e) Determining the extents to which individual responsibilities overlap.
- 32. Which among the following is not a major dissatisfier in work situation according to Herzberg's two factor theory?
 - (a) Presence of a code of conduct for workers.
 - (b) Supervision
 - (c) Interpersonal relations
 - (d) Additional responsibility
 - (e) Working conditions.
- E 33. While delegating, a manager require to do the following except:
 - (a) Give support as needed and follow up the progress of work
 - (b) Be clear about exactly what is delegated.
 - (c) Select the person who you are sure can do the work.
 - (d) Give support as needed and follow up the progress of work.
 - (e) Absolve him/her from all the mistakes that occur.
 - 34. Regarding the different types of evaluation, which of the following statements are true?
 - (a) Summative evaluation assesses the situation before a project begins
 - (b) Summative evaluation involves the preparation of checklists and meetings to determine progress
 - (c) Formative evaluation assesses the plans for a project and helps determine whether the program is appropriate for the assessed needs
 - (d) In primary healthcare, assessing quality of care is an example of formative evaluation
 - (e) All of the above

- 35. The following are examples of useful activities in monitoring the success of implementation of a malaria control program except:
 - (a) Visiting health centres to ascertain how patients with malaria are treated
 - (b) Analyzing reports of total area of bush cleared
 - (c) Setting up boxes to collect complaints from patients
 - (d) Performing a cost benefit analysis of different drugs used to treat malaria
 - (e) Assessing prescriber compliance to established treatment protocols
- A 36. In planning for a health activity such as "Eliminate Polio Campaign", the correct sequence of steps to be taken is?
 - (a) Situation analysis, prioritization, implementation, evaluation
 - (b) Prioritisation, Situation analysis, monitoring, implementation
 - (c) Situation analysis, prioritization, evaluation, implementation
 - (d) None of the above
 - (e) Implementation, monitoring, evaluation ×
 - 37. Adequate and timely data is key to good health planning. The following are examples of sources of data that are commonly used for planning in Kenya except:
 - (a) Census T
 - (b) Hospital morbidity data T
 - (c) Sentinel sites
 - (d) Registration of births/deaths ⊤
 - (e) Mass screening exercises e.g. breast cancer awareness week
 - 38. Which of the following statements are true?
 - (a) Strategic goals are set by middle management
 - (b) Operational goals are set by lower management and determine priorities of an organization
 - (c) Strategic goals to be effective must specify resources and time frames
 - (d) Tactical goals are usually developed by top management to determine how to implement a strategic plan
 - (e) Tactical goals are usually developed by middle management to determine how to implement a strategic plan

- 39. Which of the following statements are true?
 - (a) Kenya Expanded Immunization Program (KEPI) is a good example of a successful health project
 - (b) Kenya Expanded Immunization Program (KEPI) is a good example of a health policy
 - (c) The way in which nurses take care of the vaccines after the vaccine is removed from the fridge is determined by the rules and regulations of KEPI
 - (d) The way in which nurses take care of the vaccines after the vaccine is removed from the fridge is determined by the standard operating procedures of KEPI
 - (e) None of the above
- 40. One of the following statements is a gender-based health condition:
 - (a) Most of the causative factors to maternal morbidity and mortality are biological
 - (b) Complications in delivery are often due to maternal age
 - (c) Wife is blamed for childlessness even when husband has poor sperm count
 - (d) Maternal malnutrition is sometimes responsible for obstructed labour
 - (e) Poor access to specialized health services causes delay in health care seeking
- 41. Community participation is often misconstrued to mean the following except:
 - (a) Preaching at the local church
 - (b) Contributions towards repairs of the bridge at the village
 - (c) Attending burial of the local chief's cousin
 - (d) Donating old clothes to the very poor
 - (e) Feeding the Orphans and vulnerable children
- € 42. Community Health Workers (CHWs) are recognized as important resources in all the following except:
 - (a) Community Health Education
 - (b) Facilitating for referrals
 - (c) Community drug distribution
 - (d) Identifying and working with opinion leaders
 - (e) Specialized health service provision

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43. Socialization as best described as a process through which:
(a) A life long process of indoctrination until he has no option but to comply
(b) Starting long before birth it continues through death into eternity

- (c) An individual is brought up to identify with his/her cultural background
- (d) A two way highway where traffic do not meet
- (e) Acculturation takes place
- 44. The concept of gender includes all the following except:
 - (a) It is a social and cultural construct
 - (b) It deals exclusively with feminine rights F
 - (c) It involves decision-making against labour contribution
 - (d) Access and control profile is an important indicator of who owns what
 - (e) It is all about relationships between men and women
- 45. Community Participation is misconstrued to refer to all the following except:
 - (a) Contributions towards repairing the bridge across the village
 - (b) Donating old garments to the poorest of the poor
 - (c) Attending the burial of the chief's cousin
 - (d) Preaching at the local house of worship
 - (e) Feeding orphans and vulnerable children
- 46. Community Health Workers are an important resource in all the following areas except:
 - (a) Community health education
 - (b) Community drug distribution
 - (c) Identifying and working with opinions leaders
 - (d) Provision of specialized health services ~
 - (e) Facilitation for referrals
- 47. All the following were among the original elements of Primary Health Care except:
 - (a) Expanded child immunization programme \(\Tau \)
 - (b) Provision of aspirins as essential drugs ⊤
 - (c) Management of STI/HIV/AIDS related opportunistic morbidity T
 - (d) Provision of portable drinking water and sanitation \top
 - (e) Collaboration with the local health facility

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(a) Accessible health care sustainable through community effort
(b) Community Health Workers are subject to the local chief F
(c) Affordable to all members of the community
(d) Acceptable health care through community doing things for themselves
(e) Essential health care availed to all
49. Patient Education is vital including all the following except:
(a) Clarify issue specific to the health problem.
(b) Giving the patient written information for re-enforcement
(c) Withdrawing sensitive issues specific to health problem \checkmark
(d) Making the patient repeat important instructions.
(e) Putting him/her next to a recovering patient for role modeling.
50. When preparing and using demonstration for health education purposes, the educator
should make sure the demonstrations have which of the following characteristics?
(a) The demonstration should last for a short time.
(b) The demonstration should be target population specific
(c) The demonstration should not involve the audience.
(d) The demonstration should capture the attention of the audience.
(e) b) and d)
51. Which of the following practices best describes safer sex in HIV/AIDS education?
(a) Use of only one brand of condoms ×
(b) Use a condom when you are suspicious of your partner. ×
(c) Sticking to one sexual partner at a time
(d) Changing a condom should it burst during sexual intercourse.
(e) Mutual monogamous relationship with uninfected partner. ×

- 52. All of the following concerning HIV transmissions are correct except:
 - (a) HIV is more efficiently transmitted through vaginal fluid and semen.
 - (b) HIV cannot be transmitted through saliva
 - (c) Breast milk is not protective against HIV
 - (d) Gonorrhoea is a risk factor for HIV transmission.
 - (e) There is difference in HIV transmission between male/female aged between 15-19 years.

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- 53. Which of the following statements is correct?
 - (a) 2,000,000 (million) cases of malaria are reported every year globally
 - (b) 50,000 (thousands) cases of malaria are reported every year globally
 - (c) 1,200,000 (millions) cases of malaria are reported every year globally
 - d) 300,000,000(millions) cases of malaria are reported every year globally
 - (e) 1,000,000 (million) cases of malaria are reported every year globally.
- 54. The following should be done to roll back malaria except:
 - (a) Rapid diagnosis
 - (b) Wait until multiple prevention activities are put in place
 - (c) Focused research
 - (d) Making evidence based decisions
 - (e) Dynamic global movement.
- 55 Secondary prevention means none of the following except:
 - (a) Polio vaccine is termed as secondary prevention
 - (b) Prompt treatment of gonorrhoea
 - (c) Wearing sit belts
 - (d) Better housing to prevent streptococcal throat infection
 - (e) Using mosquito nets.
- 56. Behaviour that maintains health is all of the following except:
 - (a) Balancing eating habits
 - (b) Avoiding habitual drinking
 - (c) Checking height if you are 30 years old \square
 - (d) Sticking to monogamous sexual relationship
 - (e) Jogging every other day.
- 57. The demographic rationale for emphasis on MCH services in Kenya is that:
 - (a) The population pyramid for Kenya is different from that of the rest of the developing world. ×
 - (b) The youth make up 50% of the population.
 - (c) The Total Fertility Rate in Kenya is declining.
 - (d) Females in the reproductive and under-fives make up 40% of the population.
 - (e) Women and children are a marginalized population in African societies.

- 58. Most causes of maternal and child morbidity and mortality are preventable through the following interventions except:
 - (a) health education
 - (b) improved home environment
 - (c) management of high risk cases at home
 - (d) early treatment
 - (e) use of MCH services
- 59. Which of the following statements is untrue?
 - (a) The risk of dying in the first year of life is about 15 times higher in the developing countries compared to the developed ones.
 - (b) Risk of dying between ages 1 and 5 years of life is about two times higher than that of the first year of life.
 - (c) The under-five mortality rate is a measure of the risk of a child dying before the fifth birthday.
 - (d) Risk of a maternal death is about 100 times higher in the developing countries compared to the developed ones.
 - (e) The maternal mortality rate in Kenya in 1998 was 590 per 100,000 live deaths.
- 60. Which of the following Millenium Development Goals (MDG) Targets is wrongly worded?
 - (a) Provide access to affordable and essential drugs
 - (b) Stop HIV/AIDS transmission before 2015; start reducing it.
 - (c) Reduce Maternal Mortality by ¾ in 2015 compared with 1990
 - (d) Reduce Infant Mortality by 2/3 in 2015 compared with 1990
 - (e) Reduce % of people with hunger with 50% compared to 1990.
- 61. Which of the following is not an indicator of the MDG "Combat HIV/AIDS, Malaria and other diseases"?
 - (a) % pop using malaria prophylaxis
 - (b) % HIV infected among pregnant women 15-24 years.
 - (c) % of orphans due to AIDS
 - (d) Measles Vaccination<1 yr
 - (e) TB Detection and Cure Rate

63. In line with the goal of making Maternal and Child Health services available, the

(b) substitute static health facilities with mobile and community based

(d) health status of the mother

program aims to:

services

(a) constitution at birth

(a) Medical laboratory <

(c) Animal laboratory

(d) Laundry room

(e) Abattoirs

(b) Chemical processing factory

(b) malnutrition /

(c) exposure

(d) susceptibility

(e) health care

infection:

(e) reproductive status of the mother

(a) increase access to within one kilometre

(c) reduce waiting time to within 30 minutes

(e) train mothers on social and cultural taboos

64. Which of the following is not an intermediate determinant of child health?

65. All the following work environments except: one are associated with increased risk of

(d) deploy doctors to health facilities

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- 66. Stress at work may result from exposure to any or all of the following except:
 - (a) Too many tasks assigned to an individual.
 - (b) None conducive working social environment.
 - (c) Having no job description.
 - (d) Prolonged working hours without reward.
 - (e) Having occasional assistance in any difficult tasks. [€]
- 67. One of the following statements is <u>true</u> about occupational diseases/conditions:
 - (a) Non-ionizing radiation with long wavelength of spectrum and can cause leukemia.
 - (b) Mesothelioma and pneumonitis is caused by exposure to asbestos fibre T
 - (c) Bysinosis and asbestosis are classical examples of pneumoconiosis diseases.
 - (d) Farmers' lung disease is caused by brucella organism.
 - (e) Carpal tunnel syndrome is common among firefighters.
- 68. Which of the following Acts is made/designed to ensure safety and healthy work environment?
 - (a) Act Cap. 145
 - (b) Act Cap. 541
 - (c) Act Cap. 514
 - (d) Act Cap. 415
 - (e) Act Cap. 214
- 69. The highest noise levels acceptable by the World Health organization in reference to noise induced hearing loss is:
 - (a) 75 dB
 - (b) 85dB
 - (c) 95 dB
 - (d) 45 dB
 - (e) 60 dB

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70. All of the following are true about industrial toxicity except:
(a) Influenced by individuals health status
(b) influenced by age
(c) All toxic chemicals have NOEL
(d) Toxicity is a function of contact duration

(e) toxicity is a function of chemical concentration

71. The maximum blood lead level acceptable by WHO in adults is:

- (a) $4\mu g/100ml$
- $(b)~400\mu g/100ml$
- (c) 40µg/100ml
- (d) $0.4\mu g/100ml$
- (e) $0.004 \mu g/100 ml$
- 72. Which of the following diseases was discovered among stone cutters in 5th century?
 - (a) Encaphalopathy
 - (b) Lead poisoning
 - (c) Anaemia
 - (d) Pneumoconiosis
 - (e) Byssinossis
- 73. Health and illness are conditions defined:
 - (a) In systemic terms /
 - (b) In cultural terms
 - (c) As witchcraft
 - (d) As natural to man
 - (e) As supernatural occurrences
- 74. The health system in Kenya is characterized by:
 - (a) Medical pluralism/
 - (b) Modern medicine
 - (c) Predominance of traditional medical practices
 - (d) Primary health care
 - (e) Traditional healers

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- 75. The sick role can be described as:
 - (a) Obligations and expectations of the patient
 - (b) The condition of being sick
 - (c) Resting during late pregnancy
 - (d) Limited to a given period of time
 - (e) Played by women only
- 76. The major differences between the anthropological and biomedical models of health is that:
 - (a) One is predominantly personalistic while the other is largely systemic and naturalistic
 - (b) Anthropological models are irrational
 - (c) Biomedical models are only applicable in specific situations
 - (d) Anthropological models are limited to African situations
 - (e) Each is only applicable in particular settings
- 77. Traditional practices are best understood:
 - (a) Contextually
 - (b) As harmful to the community health
 - (c) As witchcraft
 - (d) As a way of revisiting modern practices
 - (e) As primitivity
- 78. Food consumption is not wholly based on what is available in the environment because of:
 - (a) Fear of food poisoning
 - (b) Cultural meaning and edibility
 - (c) Ignorance
 - (d) Limited availability
 - (e) Cultural adaptation
- 79. Community participation is important:
 - (a) For establishing project ownership and empowerment
 - (b) As it averts ignorance
 - (c) As it is cheap for the project
 - (d) As a requirement for PHC.
 - (e) As a demonstration of the government's commitment.

- 80. Traditional health providers:
 - (a) Are all are witch doctors
 - (b) Have differentiated roles
 - (c) Operate in secrecy
 - (d) Are formally trained
 - (e) Their skills are inherited
- 81. In a study of a disease in which all cases that developed were ascertained, if the relative risk for the association between a factor and the disease is less than 1.0 then:
 - (a) There is no association between the factor and the disease.
 - (b) The factor protects against development of the disease.
 - (c) The comparison group used was unsuitable.
 - (d) There is a positive association between the factor and the disease.
 - (e) Both b and d above are correct.
- 82. A test suitable for screening should be:
 - (a) Inexpensive
 - (b) Able to give results in a short time.
 - (c) Acceptable to the subjects being screened.
 - (d) (a) and (c) above.
 - (e) (a), (b), and (c) above.
- 83. Endemic means that a disease:
 - (a) Occurs clearly in excess of normal expectancy.
 - (b) Exhibits a seasonal pattern.
 - (c) Is prevalent among insects.
 - (d) Affects a large number of countries simultaneously.
 - (e) Is habitually present in human populations at the same level.
- 84. Which of the following is **not** an advantage of a prospective cohort study?
 - (a) Many disease outcomes can be studied simultaneously.
 - (b) Recall bias is minimized compared to a case-control study.
 - (c) Loss to follow-up of the study subjects is not a problem.
 - (d) Exposure can be measured precisely.
 - (e) Incidence rates can be determined.

- 85. Subjects were children enrolled in a health maintenance organization. At 12 months each child was randomly given one of two types of vaccine against Haemophilia influenza. Parents were asked to record any side effects on a card, and mail it back after two weeks. This was a(n):
 - (a) Case-control study.
 - (b) Experimental study.
 - (c) Cross-sectional study.
 - (d) Cohort study.
 - (e) Survey.
- 86. Measures of disease occurrence include the following except:
 - (a) Cumulative incidence rate.
 - (b) Prevalence rate.
 - (c) Attack rate.
 - (d) Sensitivity.
 - (e) Incidence density.
- 87. Which of the following is the correct sequence of events in the natural history of a disease?
 - (a) Susceptibility stage, Sub-clinical stage, Clinical stage, Disability stage
 - (b) Clinical stage, Susceptibility stage, Sub-clinical stage Disability stage.
 - (c) Susceptibility stage, Sub-clinical stage Disability stage, Clinical stage.
 - (d) Susceptibility stage, Clinical stage, Sub-clinical stage, Disability stage
 - (e) Susceptibility stage, Disability stage, Sub-clinical stage, Clinical stage
- 88. The important dimensions of Descriptive epidemiology include:
 - (a) Age, sex, and occupation.
 - (b) Time, Season, and Person.
 - (c) Time, Place and Person.
 - (d) Place, Residence and Age.
 - (e) Marital status, race and age.

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- 89. Which of the following are the main classifications of disease determinants?
 - (a) Agent and Environmental factors.
 - (b) Host and Agent factors.
 - (c) Time, Place and Person.
 - (d) Host and Environmental factors.
 - (e) Host, Agent and Environmental factors.

A 90. Probability sampling methods include the following except:

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- (a) Convenience sampling. F
- (b) Cluster sampling. 7
- (c) Stratified random sampling.7
- (d) Multi-stage sampling.T
- (e) Systematic sampling. T

SAMPLING sampling simple

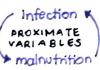
SAMPLING probability stratified sampling systematic

wasting: weight-for-height

underweight: weight-for-age

- 8 91. Epidemiologic methods may be used for the following except:
 - (a) Determining the distribution of diseases in the population. 7
 - (b) Determining the blood pressures of patients. ×
 - (c) Evaluating the effectiveness of preventive measures. T
 - (d) Identifying disease determinants. 7
 - (e) Determining the health needs of the population. 7
- B 92. Which of the following indices would best help in assessing chronic nutrition problems in a community?

 (stunting (height-for age)
 - (a) Weight for height F
 - (b) Height for age 7
 - (c) Mid-upper circumference F
 - (d) Weight for age F
 - (e) Skin food thickness F
- A 93. Which of the following are the principal and immediate causes of childhood malnutrition in Kenya?



- Inadequate food intake, diseases T
- (b) Poor agricultural policies, inadequate land F distant
- (c) Household food insecurity, inaccessible health facilities F distant
- (d) Poverty, disease F
- (e) High population growth rate, poverty F distort

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A 98. Exclusive breastfeeding refers to:

- (a) Feeding an infant on breastmilk and mineral or vitamin drops (if necessary) until the age of 4-6 months. F T
- (b) Feeding an infant breastmilk and plain water only until the age of 4-6 months.
- (c) Feeding an infant on breastmilk and cows milk only until the age of 4-6 months. F
- (d) Feeding an infant on breastmilk and acceptable herbal solutions only until the age of 4-6 months.
- (e) Feeding an infant on breastmilk and sugar water only until the age of 4-6 months. F
- Which of the following is not a nutritional disorder of public health significance in sub-Saharan Africa?
 - (a) Anaemia T
 - (b) Protein Energy malnutrition T
 - (c) Iodine deficiency disorders T
 - (d) Vitamin a deficiency T
 - (e) Pellagra 🗸
 - 100. In assessment of PEM, the nutritional status indicator typically with the highest prevalence in community nutritional surveys is:
 - (a) Wasting
 - (b) Underweight
 - (c) BMI among men < 50 years
 - (d) Stunting
 - (e) MUAC wasting
- 8 101. Assessment of dietary intake practices in a rural community in Kenya could be undertaken using all the following except:
 - (a) Keeping of food records T
 - (b) Conducting 48 hour dietary recall F
 - (c) Conducting 24 hour dietary recall J
 - (d) Using a food frequency questionnaire τ
 - (e) Conducting household observations **T**

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 - (c) Conducting 24 hour dietary recall J
 - (d) Using a food frequency questionnaire **7**
 - (e) Conducting household observations T

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c 102. According to 2003 Kenya Demographic and Health Survey, which of the following answers gives the correct infant mortality rate (IMR) and under five mortality rate (U5MR)?

	IMR 1000/YR	<u>U5MR 1000/YR</u>	IMR: deaths of infants <1yr of age x1000
(a)	54	200	live births in Ayr given 39 deaths/1000 live births
(b)	61	150	39 deaths/1000 live births
<u>©</u>	77	115 🗸	USMR = deaths of children
(d)	96	89	under-5 in a given yr x 1000
(e)	112	70	live births in a given year
			52 deaths/1000 live births

103. <u>Births in a year</u> x 1000

Pop. of women aged 15-49 yrs in a year

The above rate/ratio is referred to as:

- (a) Age specific birth rate F
- pop-at midyr
- (b) Crude fertility rate F
 - (c) Total fertility rate $F \longrightarrow \frac{\Sigma ASBR}{1000} \times 5$
 - (d) General fertility rate 7

(e) Child-woman ratio F children 0-4yrs x 100

Q aged 15-49yrs

D 104. Total fertility rate in Kenya is currently estimated to be: Currently: 3.9 births per woman

- (a) 8.1 children per woman × 1967
- (b) 6.7 children per woman
- (c) 5.4 l children per woman
- (d) 4.9 children per woman (kohs 2003/04)
- (e) 3.7 children per woman

B 105. The term "fertility" is used by demographers to denote:

- (a) The crude birth rate F
 - (b) The actual production of live births **T**
 - (c) The probability that a woman will conceive F fecundability
 - (d) The reproductive potential of both males and females F feaundity
 - (e) The reproductive potential of females only F

- A 106. The crude rate of natural increase is calculated as: [8-0]
 - (a) The difference between births and deaths
 - (b) The total number of births divided by mid-year population F
 - (c) Birth rate divided by death rate F
 - (d) Death rate divided by birth rate F
 - (e) Birth rate added to net migration and subtracted from death rate F
 - 107. In order to compare mortality levels between different countries, it will be useful to calculate age-adjusted death rates wherever:
 - (a) The populations are not exactly the same size
 - (b) The crude death rates are equal
 - (c) The causes of death are different
 - (d) The populations have considerable differences in age-structure
 - (e) The crude death rates are different
 - 108. Which <u>one</u> of the following statements about micro-theory of migration is incorrect?
 - (a) Typically rely on individual level survey data
 - (b) Attempts to integrate micro and macro factors of migration
 - (c) Focuses on individual, family or household as the unit of analysis
 - (d) Focuses on motivation, choices and intentions of potential migrants
 - (e) Focuses on information processing, and decision-making process of potential migrants
 - 109. The percentage of Kenya's population above 65 years as per 1999 census results was:
 - (a) 4% of the total population
 - (b) 10% of the total population
 - (c) 15% of the total population
 - (d) 20% of the total population
 - (e) 25% of the total population

110. When measured most precisely, the variable systolic blood pressure may be classified as: (a) Discrete (b) Ordinal (c) Continuous (d) Interval (e) None of the above 111. An example of an interval type of variable is: (a) Temperature (b) Fasting blood sugar (c) Age grouped into intervals (d) Number of siblings (e) None of the above 112. The main reason for our interest in the variability of data is: (a) It is used in statistical inference (b) It is useful in indicating the need for interventions (c) It is a good indicator for normality in the population distribution (d) For large samples it is close to the mean (e) It has no other use except: in descriptive statistics 113. Which one of the following statements is NOT appropriate for a null hypothesis? (a) The proportion of females in the medical profession is 0.5 (b) There is no relationship between sleep deprivation and having a migraine (c) The proportion of extremely low birth weight babies at KNH is 0.15 (d) Females have the same IQ as males (e) All of the above are appropriate 114. In a normally distributed population, the proportion of observations that lie within ± 2 standard deviations from the mean is approximately: (a) 95% (b) 25% (c) 68% (d) 75%

(e) Impossible to tell

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- 115. In which of the following study situations would you use a bar chart to present the data?
 - (a) The intelligence quotient in a sample of health professionals
 - (b) The birth-weights in a sample of neonates
 - (c) The type of illness in a sample of patients attending a health facility
 - (d) The relationship between height and FEV₁
 - (e) The difference between two population means
- 116. Quantities that are measured and calculated from samples are known as:
 - (a) Parameters
 - (b) Statistics
 - (c) Distributions
 - (d) Sampling variation
 - (e) None of the above
- 117. The median is a better measure of central tendency when:
 - (a) the distribution is normal
 - (b) the number of observational is very large
 - (c) its not necessary to perform significance tests
 - (d) the distribution is markedly skewed
 - (e) None of the above
- 118. Which one of the following is NOT among the quantities required in the construction of a confidence interval?
 - (a) Shape of the distribution
 - (b) The estimate
 - (c) The reliability coefficient
 - (d) Standard error
 - (e) All the above are required
- 119. If we multiply all the observations in a data set by a constant then:
 - (a) The value of the constant is added to the mean
 - (b) The value of the constant is added to the standard deviation
 - The variance is increased by the value of the square of the constant
 - (d) The mean is multiplied by the value of the constant
 - (e) None of the above happens

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- 120. An appropriate technique to compare two independent population means is the:
 - (a) Chi-square test
 - (b) Paired t-test
 - (c) Independent samples t-test
 - (d) Test for normality
 - (e) None of the above

MSH YOU SUCCESS