

THE SUPERIOR COLLEGE, LAHORE 4" PROFESSIONAL MBBS Annual EXAMINATION 2018

COMMUNITY MEDICINE SECVE

Time Allowed: 2 hours

Roll No. F1/040 Total Marks: 75

Instructions

- 1. Attempt all questions.
- 2. All question carry equal marks.
- 3. The SEQ's part is to be submitted within 2 hours, Extra time will not be given.
- 4. Neat Hand Writing use of margin and marker for headlines will increase the presentation of your
- Do not write your name or disclose your identity in anyway.

Q-No: 1

a. Define Florent Energy Maintinion. L 170	4.3
b. Tabulate five major differences between Marasmus and kwashiorkor. 286	2.5
Q-No: 2.	
a. Define school Health services. 32	2.5
b. What is the role of a school teacher in school health services? 325	2.5 2-
Q-No: 3 Describe the effects of global warming. 200	5 '
Q-No: 4 Describe the principals of water chlorination 189	5
Q.No: 5 Calculate the mean. Median, mode and standard deviation of the following data 80, 70, 62, 65, 10, 78, 80,78,85, 89, 88, 80, 89 \53	5
Q-No: 6 Yellow fever is a public health concern for Pakistan, what are the measures to control	spread
of yellow fever in Pakistan?) Slides + 100 page	5
Q-No: 7 Incidence of hypertension is increasing.	
a. What are the modifiable causes blamed to be responsible for it? \\8	2.5
b. What health education strategy can be prepared to change the life style for lowering th incidence of hypertension?	e . 2.5
No. 2 M	5

thy gott sector.	erial way
Provides 27	37
Which principles of primary health cute are, used in this project? b. Entlist the components of primary health cure.	2.5
10	2.5 **
Ono: 10 Deline Pneumoconiusis, 225	
b. Enlist its preventive measures. 276+225	2.5
The state of the s	2.5
QNG: 11 why Primary Hearth care is chosen for health improvement all over the world?	5
QNO: 12	
betine Demography. (6)	
b. What is meant by demographic transition? 68	2.5
	4.5
0.80:13	
2 Derine Reproductive Health, 233	2.5
b. What are the objectives of antenatal services 1235	2.5
The state of the s	5 13 18 19
QH0:14	
a. Enlist mosquito born diseases. Sides	. 2.5
b. What protective measures should be adopted to prevent mosquito Lites?	2.5 5
QNa: 15	

What are the reasons for increased transmission of communicable diseases after disaster? 2.5

a Define disaster. Slide

rotien Ene	vay mainut	ition:	-
Range of arising trans	Pathological (one Simultaneous calories and with Infections.	deficing of	
Types: → Kuns → May			
Difference:			
Features	Mayasmu.	KWASHIKOY	
. Muscle wasting	obvious Severe loss	Hidden Retained	
• Fat wasting • Oedema	None	lowe legs	
· weight for height	very low	1 aw 9 rritable	



School Health Services:

"91 is a branch of preventive medicine which deals with the medical anspection of school children to their health protection, primarily in environment of school."

Role of School Teacher in School health sequice: He can give lecture on heath and personal hygiene. · He can give nutritional education. He attends powent teacher meeting. He actively participates in school meal searce · He can vaccinate the children. · Render First and Treatment. · He can suppervise cleaniness of classroom

Heart patients at more rise. I make the patients at more rise. I water Resources: Dry Soul Poor water quality overall dec. water quantity.	· Damages	umps tisse	les.
Dry Soul poor water quality overall dec. water quantity.	Heart pat	iends at	more rise.
. Dry soul poor water quality overall dec water quantity.	· Invente	Os at	ground level.
overall decomater quantity.			
	· Dry so	bar and liter	er gan van er versenhalten einen gegentere val der gin gelaget zu der eine einen einen der eine der eine eine
Documentation:	poor was	dec. water	quantity.
- Detares laction.	, Deforestation	:	
- Agriculture Soil erroriston.		cail amount	ilon.

	unter should be clean & free
-	from turbidity.
	Chlorine demand of water should
	be estimated.
	At least one nour is essential
	as a contact period of free
	residual chlorine for lalling
	bacteria le viruses.
	Bacceria U Visuses:
	Minimum recommended conc.
	of free Chlorine
	The sum of chlorine alemand
	of the specific water plus
	the free residual Chlorine of
-	I wyse

prevention of Yellow Fever:
O Jungle Yellow Fever:
· Uncontrol able
· viccination of humans with 17 D vaccine.
1 vector (ontrol:
· Source reduction method
· Elimination of breeding places
Use of repellants
· Mosquito repellant nets
· Mosquito (oils
O Surveillance:
· WHO uses Aedes degupti index
· WHO uses Aedes degypti index · 91 Should be less than 1 %

2. Modifiable

- Obesity: The greater the weight gain, the greater the risk of high blood pressure
- Lack of exercise: Physical activity by reducing body weight may have an indirect effect on blood pressure
- Heavy alcohol intake: It is associated with increased risk of HTN
- Cigarette smoking
- 5 Heavy salt intake: High salt intake increases the blood pressure
- Saturate fat: They increase blood pressure
- Oral contraceptives: Increase blood pressure

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Prevention 1. Primary Prevention

- a. Population Strategy Health education on all risk factors
 - Weight reduction

 - Reduction in alcohol consumption Reduce or stop smoking
 - Reduction of salt intake
- - Avoid stress
 - Exercise promotion Exercise provided by Hypertension during pregnancy is prevented by Hypertension during prevented by Hypertension during prevented by Hypertension during the Hypertension during
 - regular antenatal checkup

b. High Risk Strategy

b. High risk individuals must be identified by screening for HTN or family history

2. Secondary Prevention

a. Early Case Detection

By screening the population for HTN

b. Treatment

of

The aim of treatment should be to obtain blood pressure below 140/90mm Hg. Control of HTM would reduce the risk for stroke and other complications.

c. Patient Compliance

Generally treatment of HTN will be lifelong Compliance of patient can be through education.

Complications

- Heart failure
- Ischemic heart disease (IHD)
- Renal failure

).	a. odd ratio (cross product ratio)	100
	Case control study	
1.	it proceeds from effect to cause (retrospective)	0
2.	it starts with disease	0
3.	it tests whether the suspected cause occurs more frequently in those with the disease	1 - 4
4.	it involves the fewer number subjects	+
5.	usually first approach to testing of hypothesis	1
6.	it gives relatively quick results	1
7.	it is suitable for study of rare diseases	1
8.	only yield estimate of relative risk	
9.	cant yield information other than selected case	
10.	inexpensive	
	A researcher wanted to study the caused by maternal anemia during	

village development project, manual labor was provided by the villagers and consultancies were provided le erent departments (health, education, agriculture and livestock).
Which principals of primary health care are used in this project.
Enlist components of primary health care
wer:
ncipals
Community participation.
quitable distribution.
nter-sectoral coordination.
appropriate technology.
MPONENTS
roper food supply and nutrition.
lasic sanitation and safe water supply.
Naternal and child care and safe family planning.
mmunization against infectious disease.
ducation about prevailing health problems.
revention and control of locally endemic diseases, e.g Malaria
reatment of common diseases and injuries.
rovision of essential drugs.
rom of mental health.

Q10
a) Define Pneumoconiosis?
b) Enlist factors underlying the pneumoconiosis.

Answer

a)

Pneumoconiosis:

Group of diseases resulting from inhalation of respirable fraction of chemical dust (inorganic, organic) leading to irreversible fibrosis is called pneumoconiosis.

DEMOGRAPHIC TRANSITION

Moving from a stage of high birth rate and a high death rate to a low birth rate and a low death rate is called demographic transition. First stage (high fertility and mortality) is known as old balance and second (low fertility and mortality) is new balance. In between these two there is a stage of imbalance in which there is high fertility and low mortality.

A. Old Balance (HF & HM)

In old balance, since death has to be replaced by births, a large number of births are required to compensate for large number of deaths.

B. New Balance (LF &LM)

It represents the improved condition of huma efficiency and health with few deaths. Production of agricultural and industrial commodities are greated and life style is more comfortable.

C. Imbalance (LM & HF)

It is the stage of natural increase, which leads to population explosion. This growth is helpful for under populated nations, which needs more

Demograph Population EMOGRAPHY is made up of two words; "demos" means people d "graphos" means drawing. finition mography is defined as the science of population mathematical knowledge of population changes is concerned with size, structure, distribution changes in population. ize is the total number of persons in that area at t time. tructure acture is distribution of population among its age sex groupings e.g.

How many persons are below five and above 40

Components of population growth

Basic fertility measures

oijb Demographi

Demograph

remove v CHAPTER CONTENTS nabsorbed Birth weight & Lov lating des Growth monitoring High-risk approach in pregnancy Growth chart MCHC Care of under five Antenatal care Breastfeeding Intranatal care Artificial feeding Postnatal care Weaning, baby fr Training program of MCHC Creased output REPRODUCTIVE HEALTH Mater ision, rede Reproductive health is defined as a condition in of ten which the reproductive process is accomplished in a state of complete physical, mental and social wellrelated ing of vision being and not merely the absence of disease or manag disorders of the reproductive process. cause. Components of Reproductive Health Supp , nervouste It includes: the n Safe motherhood Will y Fertility regulation Infertility mia Prevention and control of reproductive tract Late N direct infections Sexually Transmitted Diseases (STDs) including less th HIV/AIDS Pregn Malignancies of reproductive tract while Newhorn pregn

Fertilization

Antenatal care

Intranatal care

Post natal care

Inter-conceptional period (time between two pregnancies)

NTENATAL CARE

means care of mother during pregnancy.

im: The aim of antenatal care is to achieve healthy other and healthy baby at the end of pregnancy.

bjectives P V To promote, protect and maintain health of the mother during pregnancy

To detect high-risk cases and give them special attention

To foresee complications and prevent them

To reduce anxiety associated with delivery

To reduce maternal and fetal mortality and morbidity

To sensitize mother to the need for family planning

To teach the mother elements of child health care, nutrition, personal hygiene and

To attend the under-fives accompanying the mother

ponents

Antenatal care clinic

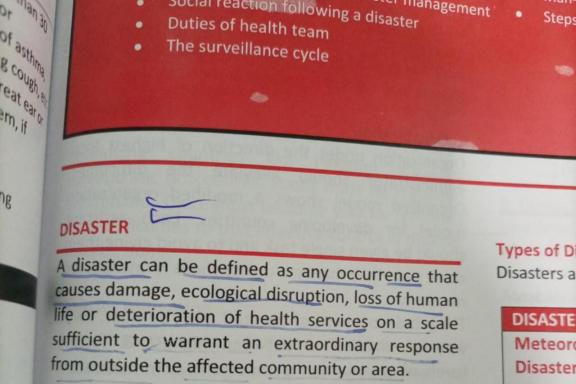
Home visits

Laboratory and diagnostic facilities

Mental preparation and family planning

Making referrals and follow up

	10/10
=> Prevention of controll of Dengue:	Q: I
O Travellers should be advised to sleep under nets which impregnateds of to use topical repellents.	> Hu
3 Adults mosquitoes should be destroyed by sprays for breeding sites should be evaduated,	-> Way
3 Keep flower Potsdry	-> 50C
3 keep flower pots dry a cover body 4 arms especially at sunshine 4 sunset a cooly mosquite repellent lotion on uncovered body not	-> Hea
(a) Apply mosquito repellent lotion on uncovered body part (b) Wash water container daily of keep them Properly covered (c) So far no effective vaccine has been made	Pers
Thegrated vector controll(IVC) used to conteract, techni Faironcial, environmentals & operational problems.	
Quicitario Con 11	



c. Post- Disaster Management (Public Health Interventions) C. Recovery Phase nati

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1. Epidemiologic Surveillance and Disease Control Reasons for Increased Transmission of

Communicable Diseases after Disaster

Overcrowding and poor sanitation in temporary resettlements

Population displacement may lead to introduction of communicable diseases to which either the migrant or indigenous populations are susceptible

Disruption and the contamination of water supply, damage to sewage system and power systems are common in natural disasters

Disruption of routine control programs

Ecological changes may favor breeding of vectors

Displacement of domestic and wild animals that carry with them zoonosis that can be transmitted to humans as well as to other animals e.g., Leptospirosis and Anthrax

Provision of emergency food, water and shelter in disaster situation from different sources may itself be a source of infections