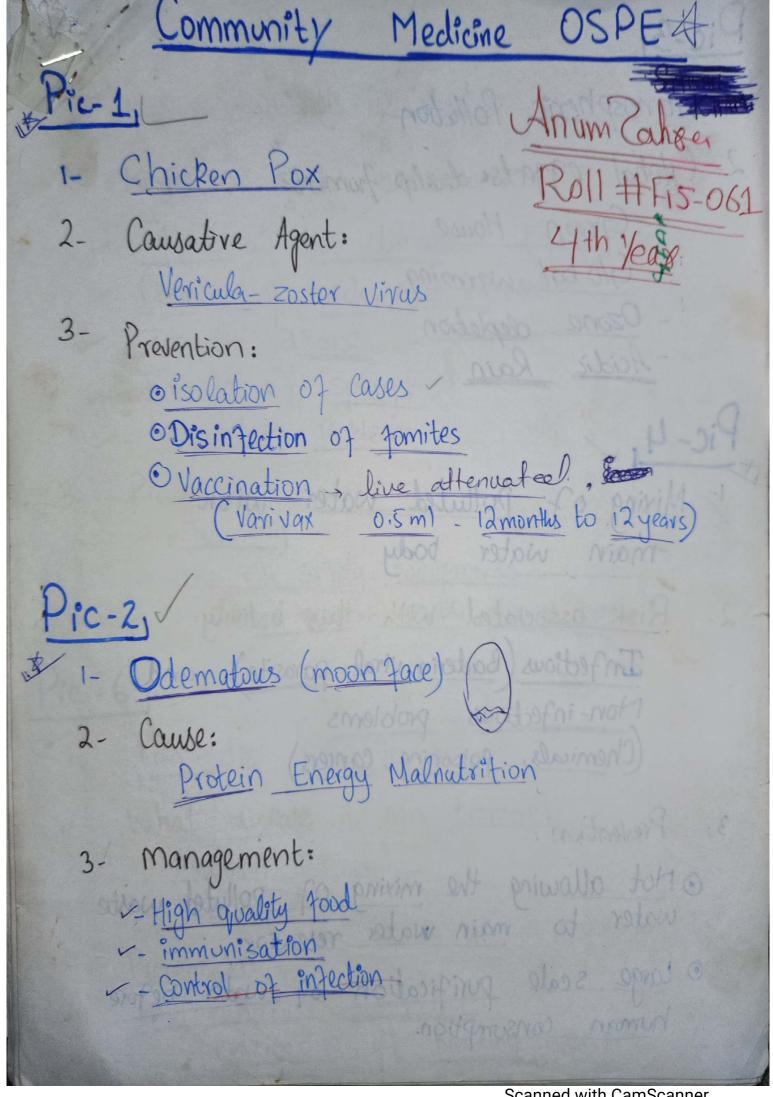


COMMUNITY OSPE

Community Medicine

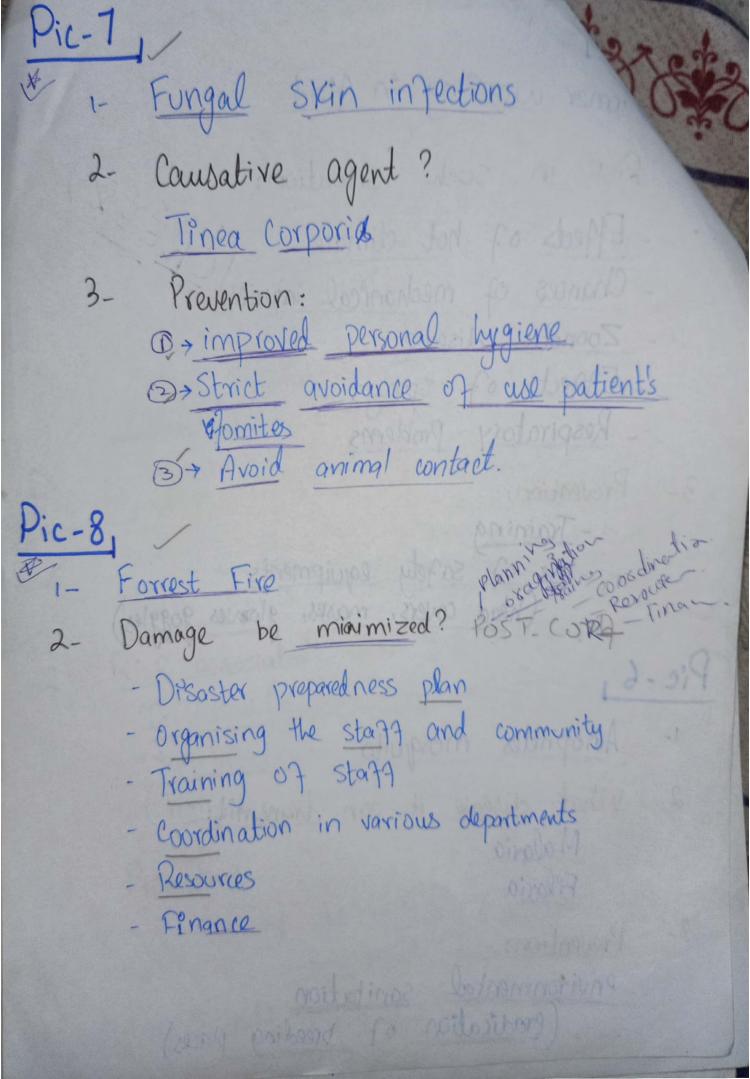


AZRA NAHEED MEDICAL COLLEGE Taimoor Asghar (F16-072)

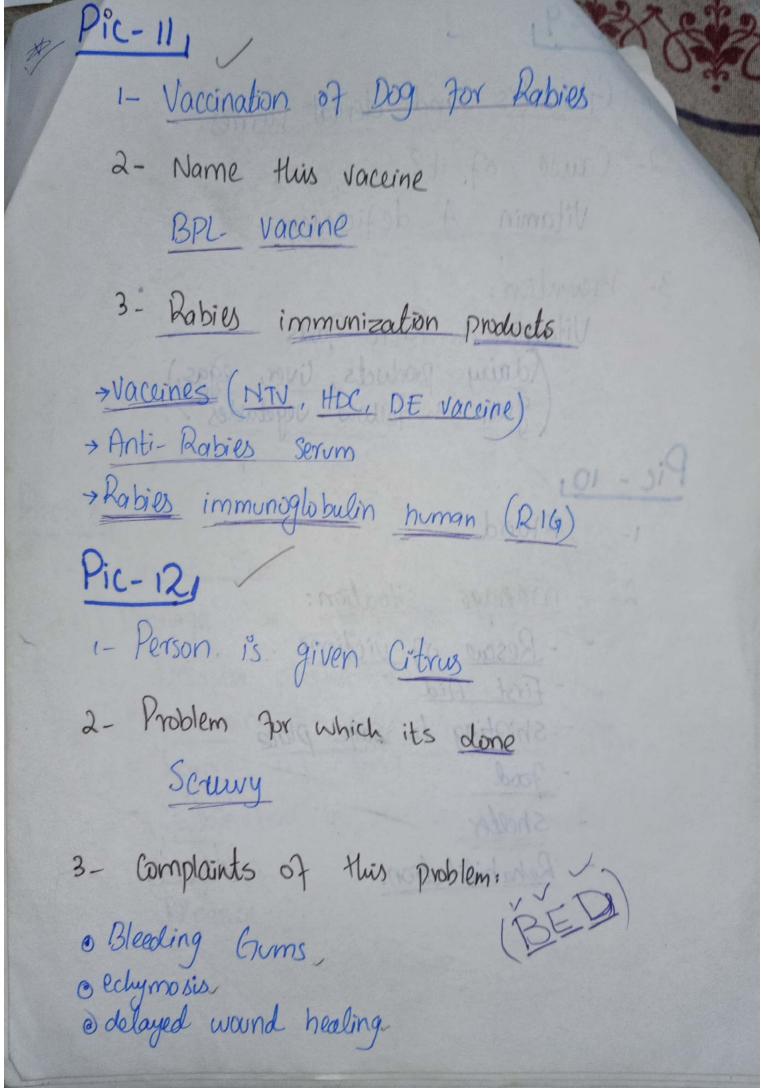


1- Atmospheric Pollution 2-Global eggects develop from it: modern's - Green House - Global warming - Ozone depletion 1- Acidic Rain Disinfection of formites 5 Mixing of polluted water with main water body 2- Risk associated with this activity: 13-379 Infectious (Bacteria, viral, parasite) and Mon-infectious problems (Chemicals, poisoning, cancers) 3- Prevention: 1 Hot allowing the mixing of polluted waste water to main water reservior @ large scale purification of water before human consumption.

Farmer working in field 2- Risk in such situation: - Effects of hot climate - Chances of mechanical injuries - Zoonotic disease - Effects of spraysion domisers - Respiratory Problems 15)+ Avoid arring 3- Prevention: - Training - Use of safety equipments (head covers, masks, gloones, goggles Anopheles mosquito What disease it can transmit: Malgria Filaria Prevention: environmental sanitation eradication of breeding places)

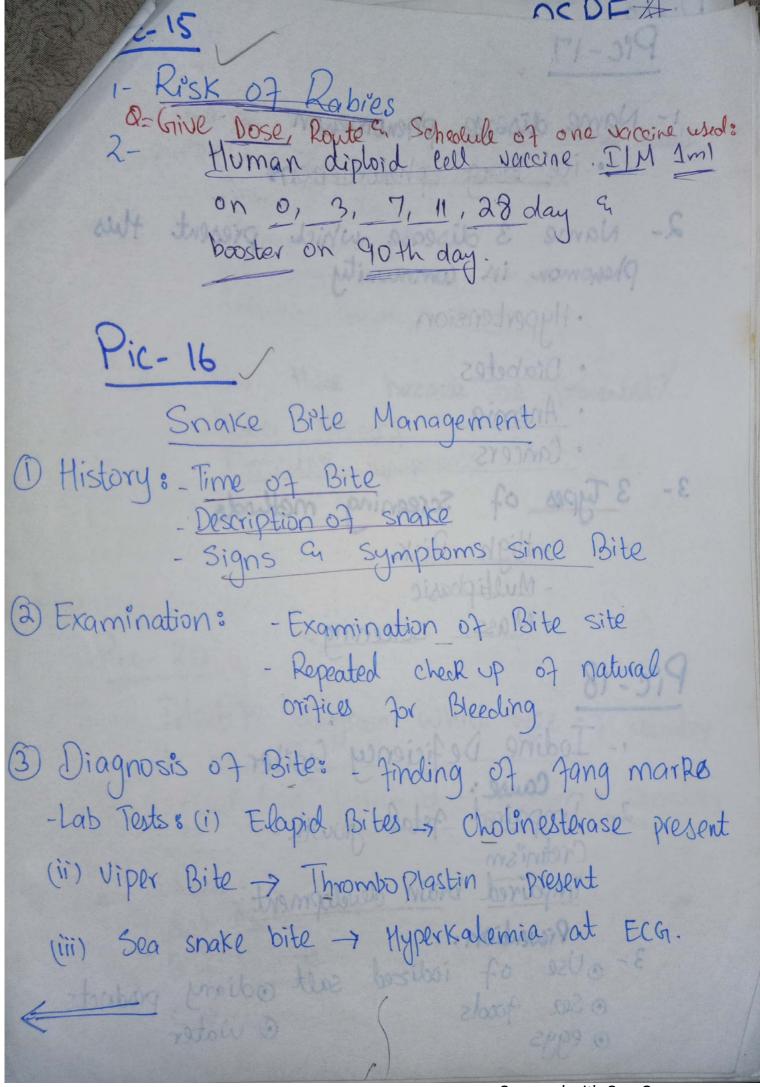


Glossitis and dental Carries 2- Cause of it? Vitamin A deficiency 3- Prevention: Vitamin A Rich Jasds Edainy products, liver, eggs.)
green a jellow regetables 10 F180d remain rolled al formant rolled. 2- manage situation: - Rescue of victims J - First Aid - Shifting to safe place - Jood - Shelter Rehabilitation. o Bleeding Coms



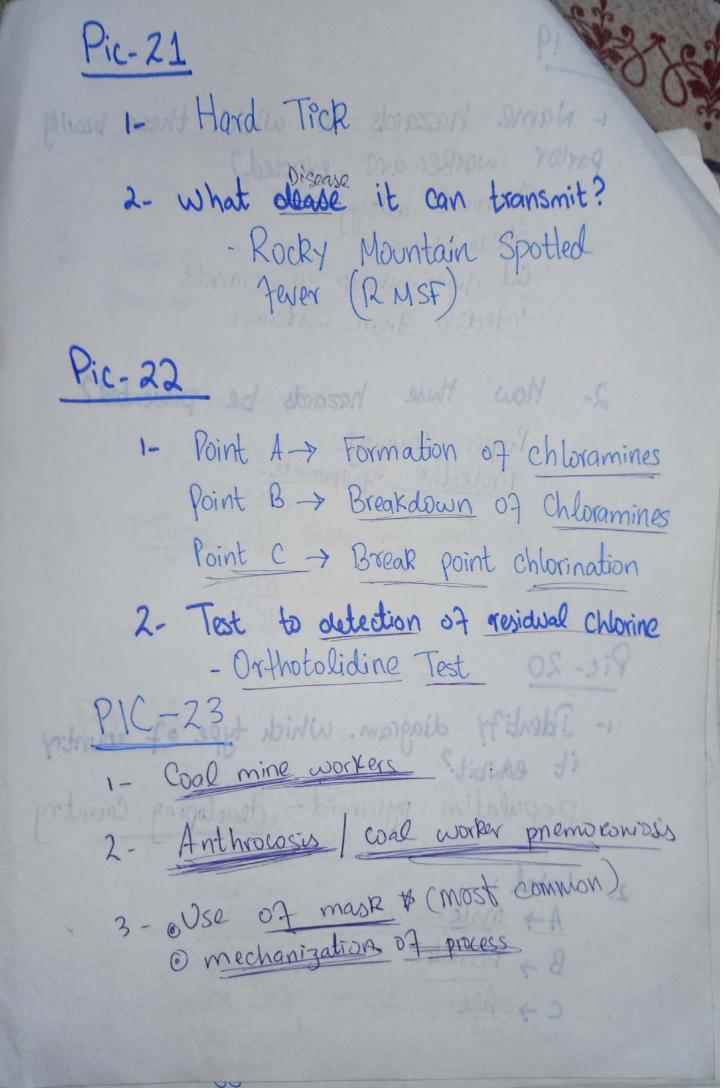
1- Polluted water galling in main water stream. 2- Risks of such altroperation process: - Risks of infections (bacterial, viral, Protozoal diseases) - Mon- infectious & Chemical poisoning) - Cancers 3- Govt. action for prevention: 1- Legislation for throwing waste water after detoxication. IUCD intra utrine Contraceptive alarce Copper T 380 A 3- complications of its use: Bleeding wolorwor + majorital (8 - ectopiz pregnancy - Pregnancy

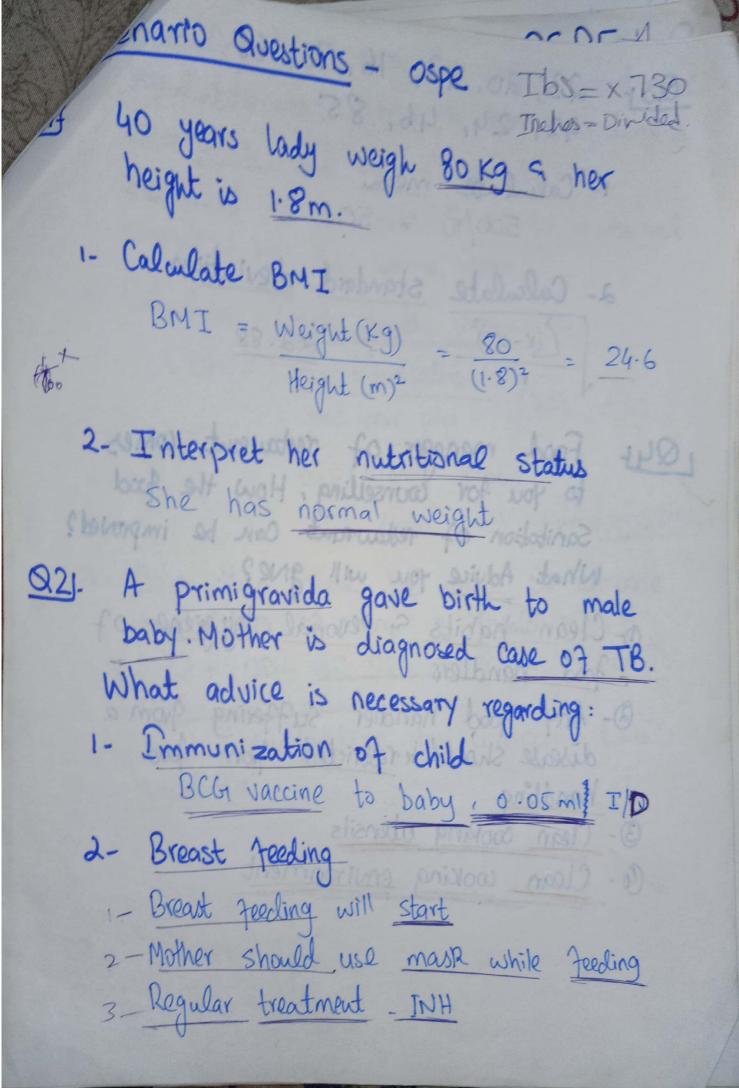
44,32,22,55,66,77,88 99,56,42 mean = 58/10 = 58.1 21010 FM FO 2821A. Standard Doviation = 27.8 (princeion lavinal) 3 diostos/ni not Treatment: 1) Alloying anxiety a Fright 2) First Aid - Immobilisation - Apply tourniquet - Cut a Such technique - wash wound with plenty of water 3) Antiverson > Polyvalent antivenin

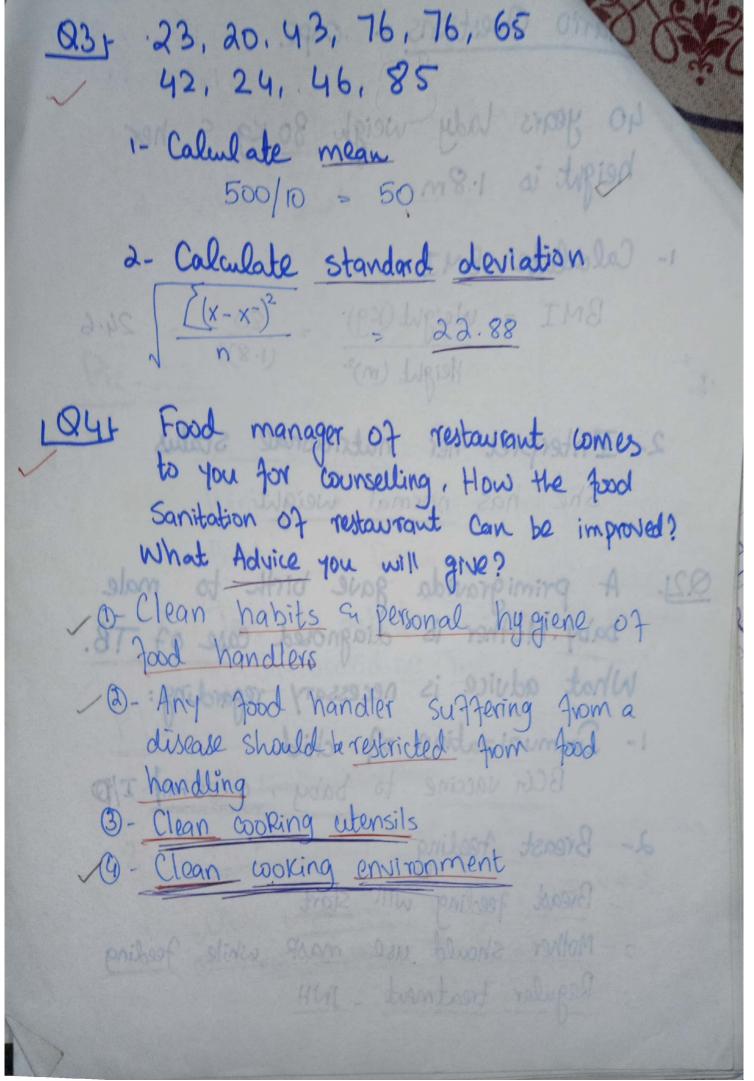


Pic-17
1- Name disease phenomenon
· ice Berg phenomenon
2- Name 3 disease which present this Phenomon in community
Hypertension
· Diabetes
Snake Bete ManagesimenA:
· Cancers
3 - 3 upper of Screening methods
- Multiphasic
- Mass screening
Danideo to qu'alor bottogos -
Iodine Deficiency Goiter Course:
2 1 marizon Artall man III
Francisco brain development
3- OUSE of iddized salt ooling products
o sea foods o water

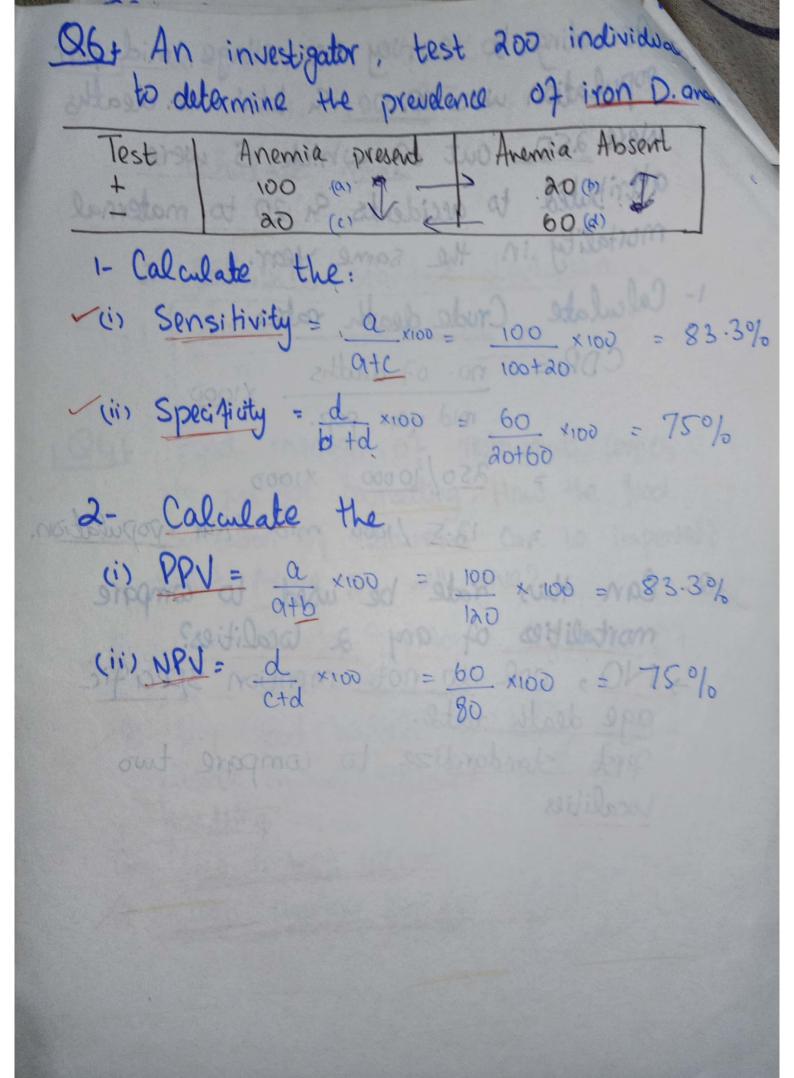
1- Name hazards to which these beauty parlor worker are exposed? Chemical allergy Steam burning Cut Jum sharp aquipments Infection from customers 2- How these hazards be prevented? Proper Training Protective equipments. 2. Test to detection of graidual Chloring Pic-20 test snibillatorfro -1- Identify diagram. Which type of wuntry it exhibit? Population pyramid - developing Country A + male B + Female





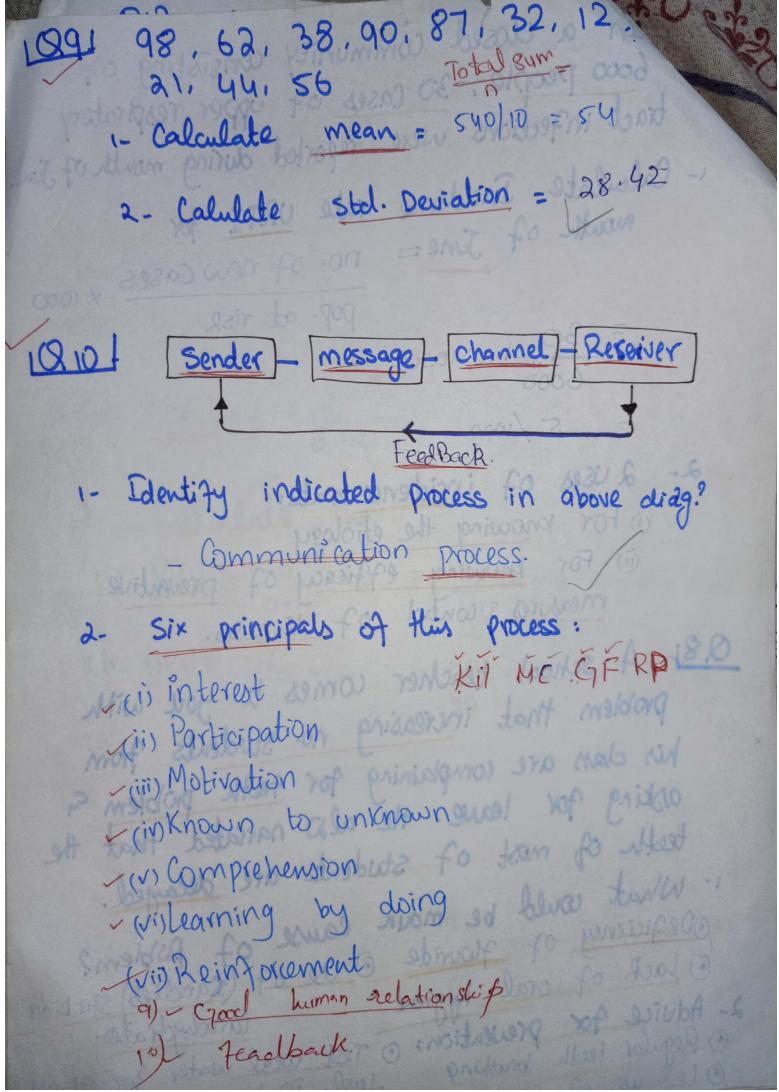


According to survey in village, mid year population was 10,000 & total no deaths Were 250, out of which 5 were attributed to accidents & 20 to maternal mortality in the same year. 1- Calculate Crude death rate: CDR = 0 no. 07 deaths mid year pop. X1000 250/10000 X1000 = 12.5 / 1000 mid year population. 2- Can this rate be used to compare mortalities of any a localities? , NO, CDR do not mention specific age death rate. first standardize to compare two Localities



In a closed community consisting of 6000 people, 30 cases of upper respiratory tract infections were reported during mouth of June. 1- Calculate Incidence rate URTI for mouth of June = no. of new cases x 1000

pop. at risk 1018) = 5/1000 2- 2 USes 07 incidence rate: (i) For knowing the etiology
(ii) For knowing efficacy of preventive measures 9 control 07 diseases. Q8+ A school teacher comes to you with problem that increasing no students from his class are complaining for teeth publish & asking for leave. He also narrated that the teeth of most of students are decayed. 1- What would be main cause of publem? Obeficiency of Houride Ouse of (Candies) Sticking Carbohydrates. 2- Advice for prevention: O Test weal water for Horide
O Regular teeth brushing Level. It low, use Horide added
O less use of candies booth paste.
Scanned with CamScanner



Age No. of people no. of deaths from a disease aix in the community community. Joung 8000 69			
old as 11000 mer 69 assessing to			
115			
Calculate age specific death rate for (ASDR)			
young a old from disease x' in community.			
ASDR sin young = 69 more 2000 paints ADRA down a winting of the ASDR stinbold 084 115 1000 7 10 10 10 10 10 10 10 10 10 10 10 10 10			
1 1- Calculate Secondary Attack Rate (SAR)			
LQ12- A 45 year old man is sitting in			
your clinic. Hes cholesterol levels is high. What courselling you will do?			
-Use of Balanced diet -Reduction in Fried items			
- mose exercise			
·- no alcohol			
- no smoting - Regular checkup - Scanned with CamScanner			

Q13- A mother is sitting in Front of you with her child. She is known case of pulmonary TB. What Advice you will give to prevent transmission of disease to her child? - Cover mouth when child is near - Treatment - Vaccination of child Feriodic examination of child Q14- During a measles out break, out of 400 students 100 became absent from school. Within a week additional 150 students were diagnosed with measles. 1-Calculate Secondary Attack Rate (SAR) 2- Give two limitations of SAR (is only used for inflections disease ~ (ii) Di Aficult. if premary cause is injected. since long



Vaccine vial monitor



A vaccine vial monitor (VVM) is a label containing a heat-sensitive material which is placed on a vaccine vial to register cumulative heat exposure over time. The combined effects of time and temperature cause the inner square of the VVM to darken, gradually and irreversibly.

Pneumoconiosis

- Silicosis
 - Most common, inhalation of quartz dust
- Asbestosis
 - Inhalation of asbestos fibers, "ground glass appearance" on CXR
- Berylliosis
 - Berylium metal dust inhalation
- Anthracosis
 - Coal workers "black lung" disease

Polio





Poliomyelitis or infantile paralysis, is an infectious disease caused by the poliovirus. In about 0.5 percent of cases there is muscle weakness resulting in an inability to move. In areas with poor sanitation, the virus easily spreads from feces into the water supply, or, by touch, into food. There is no cure for polio infection, but it can be prevented by vaccination.

1106 SC, TF COM MED

Snow storm Silicosis

• Caused by inhalation of dust containing free silien or silicon dioxide • Snow storm appearance in X ray

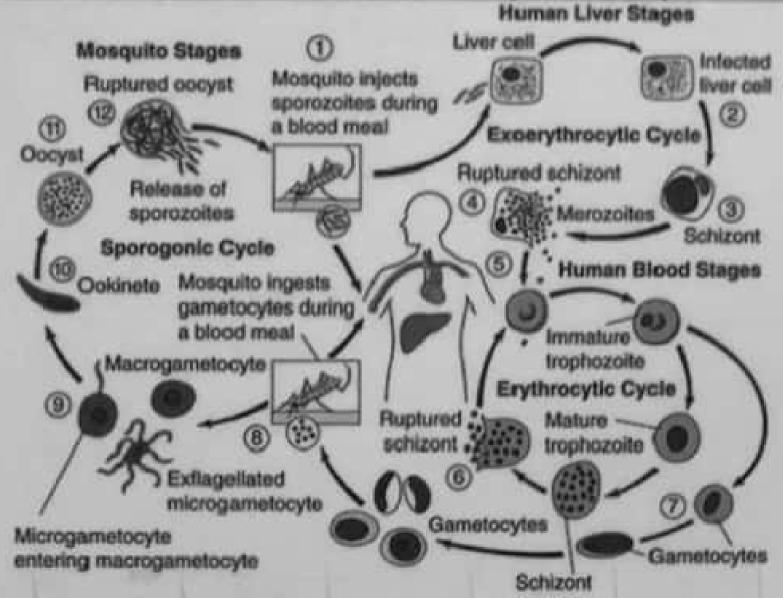
Lead line on gums



 In 1840, Henry Burton described a bluish line in the gum following exposure to lead(Burton's line). Lead sulphide is produced by the reaction of lead with sulphur ions produced by oral bacteria which present as a narrow blue line alongside the edge of the gum in both upper and lower jaws.



Lifecycle of malaria parasite (Vivax and Falciparum)

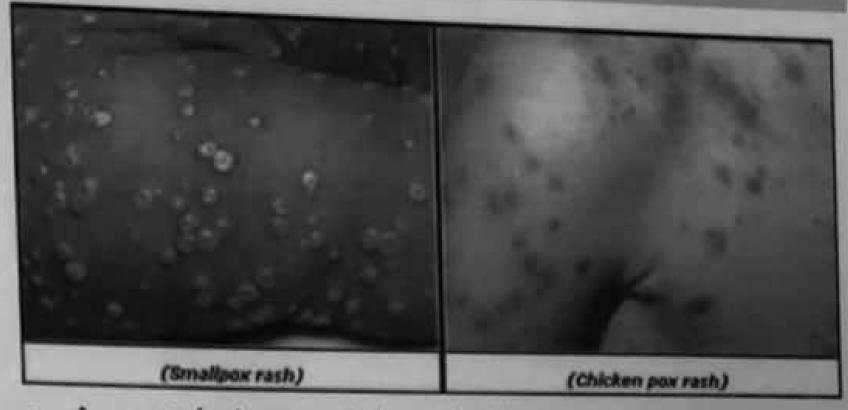


Measles

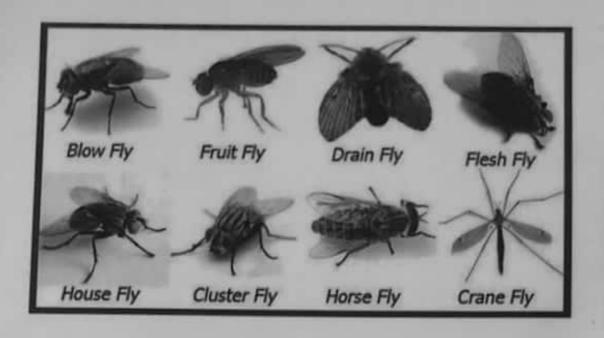


Measles, also called rubeola, contagious viral disease marked by fever, cough, conjunctivitis, and a characteristic rash. Measles is most common in children but may appear in older persons who escaped it earlier in life. Infants are immune up to four or five months of age if the mother has had the disease. measles can now be prevented with a vaccine. Immunity to measles following an attack is usually life long.

Pustular eruption in smallpox and chickenpox



A pustule is a vesicle or bulla containing purulent material



1004 SC TF COM MED

Polio





Pollomyelitis or infantile paralysis, is an infectious disease caused by the pollovirus. In about 0.5 percent of cases there is muscle weakness resulting in an inability to move. In areas with poor sanitation, the virus easily spreads from feces into the water supply, or, by touch, into food. There is no cure for polio infection, but it can be prevented by vaccination.

Anopheles mosquito



Anopheles is a genus of mosquito. About 460 species are recognised; while over 100 can transmit human malaria, only 30–40 commonly transmit parasites of the genus Plasmodium, which cause malaria in humans in endemic areas. Only female mosquitoes take blood. They use the protein and iron found in bloodto make their eggs When resting, the stomach area of the anopheles mosquitoes be CDC adultor. upward, rather than being even with the surrounding surface like most mosquitoes. he CDC advises that mosquitoes are active from dusk to dawn, but especially in the early morning and eventing.

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Sand fly

Size: 1.5 to 2.5 mm in length

30 species in India

Kala azar: P. Argentipes

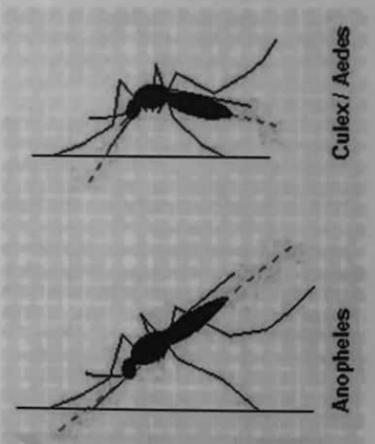
It bites during night, lower extremities

Blocked sand fly (epidemiologically danger)

Flight range: hopping movement(not more than 3 feet), it can fly

for shorter distance

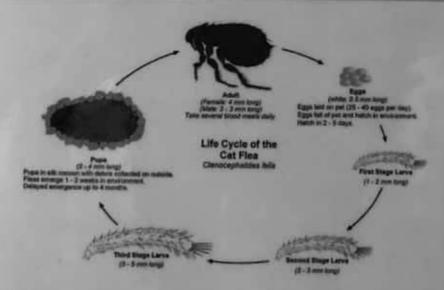




1015 SC TF_COM.MED

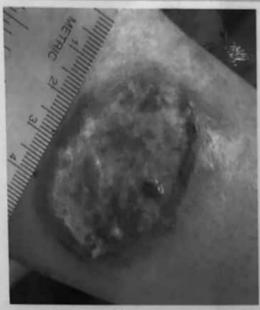
Flea





Flea are ectoparasitic (survive as external parasites of mammals and birds). Fleas live by consuming blood or hematophagy, from their hosts. They are the chief agent transmitting the Black Death (bubonic plague) in the Middle Ages.

Leishmaniasis





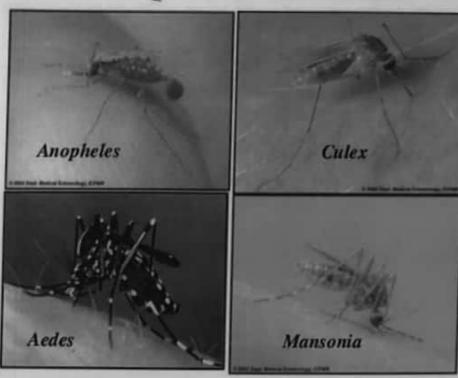
Leishmaniasis, human protozoal infection spread by the bite of a sandfly. Leishmaniasis occurs worldwide but is especially prevalent in tropical areas. Three major forms of the disease are recognized: visceral, cutaneous, and mucocutaneous.

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MOSQUITO VECTORS



1018 SC_TF_COM.MED

Tick

TICKS

Blacklegged Tick
(deer tick)
(can spread Lyme disease)

American dog tick
(wood tick)
(does not spread Lyme disease)



Tick Bites Disease Symptoms & Signs. Infection with a bacterium called a spirochete (Borrelia burgdorferi) causes Lyme disease, which infected ticks transmit to humans.



Aedes Mosquito

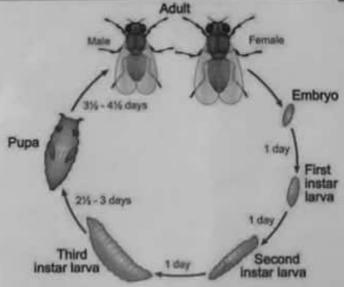


Aedes aegypti, the yellow fever mosquito, is a mosquito that can spread dengue fever, chikungunya, Zika fever, Mayaro and yellow fever viruses, and other disease agents. The mosquito can be recognized by white markings on its legs and a marking in the form of a lyre on the upper surface of its thorax.

1914 SC TF COM.MED

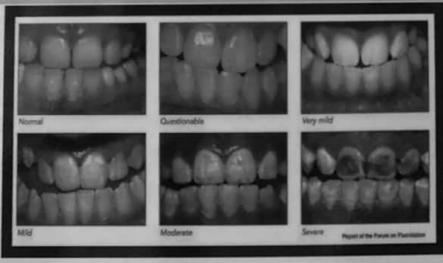
House fly





House flies can fly in from any near by area that is conducive for them to develop such as a farm, road kill, trash bins, compost piles or other areas where decaying organic matter exists. Adult house flies are attracted the decaying matter and will fly in to lay their eggs.

Dental fluorosis



Fluorosis, also called dental fluorosis, is a condition that changes the appearance of tooth enamel in young children as a result of being exposed to too much fluoride. Children are only at risk for fluorosis while their permanent teeth are still forming. Adults and children older than 8 do not get fluorosis.

1982 SC_TF_COM.MED

Ground glass anthracosis



Receive St. L. Espain, A. S. Franci, S. L. Herman, H. L. Lorque, S. L. Harmon, S. Lauraine, Nacrobial Principles of Internal Medicine, 18th Saltino Natural Confession (Internal Confession), 18th 1857 (Internal Confession), 18th 185

Ground-glass nodule (GGN) is defined as a nodular shadow with ground-glass opacity that is generally associated with the early-stage lung adenocarcinoma. Nowadays, GGNs of the lung are increasingly detected with thin-section computed tomography scan.

Bleeding gums



PERIODONTITIS



Bleeding gums are caused by inadequate plaque removal. Plaque contains germs which attack the healthy tissue around the teeth. If plaque build-up occurs, gums become inflamed and irritated, which may cause them to bleed when brushing or flossing. This is called gingivitis and is the first stage of gum disease.

1005 SC_TF_COM.MED

Coal miners lung











Black lung, also called Black-lung Disease, or Coal-workers' Pneumoconiosis, respiratory disorder, a type of pneumoconiosis caused by repeated inhalation of coal dust over a period of years. The disease gets its name from a distinctive blue-black marbling of the lung caused by accumulation of the dust.



BITOT SPOT









ARTHOPODS

1040 SC TF COM MED



Weight Machine















and answer the following questions:



6

1. Identify the problem

Fungal Skin inflections 2- Causative agent? Tinea Corporid Prevention: . > improved personal hygiene >> Strict avoidance of use patient's + Avoid animal contact.

Task:

Carefully observe the given diagram/photograph and answe the following questions:



1- Vaccination of Dog for Rabies

- 2- Name His vaccine BPL- <u>Vaccine</u>
- 3- Rabies immunization products
- > Vaccine's (NTV, HDC, DE vaccine)
- > Anti-Rabies Serum
- Rabies immuniglobulin human (216)

1- Risk 07 Rabies 2-Give Dose, Route a Scheolule of one vaccine used: 2- Human diploid cell vaccine. I/M 1ml on 0, 3, 7, 11, 28 day 9

Pic-16_/

Snake Bite Management

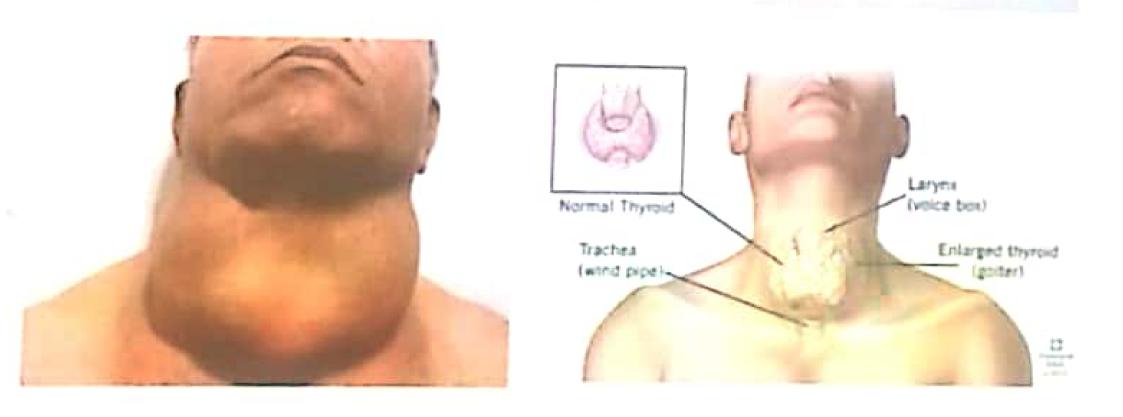
- D History: Time of Bite
 - Description of snake
 - signs a symptoms since Bite
- 3) Examination: Examination of Bite site
 - Repeated check up of natural orifices for Bleeding
- 3) Diagnosis of Bite: finding of Jang marks
 -Lab Texts: (i) Elapid Bites -> Cholinesterase present
 (ii) Viper Bite -> Thrombo Plastin present
 (iii) Sea snake bite -> Hyperkalemia at ECG.

Treatment: 1) Alloying anxiety a Fright (2) First Aid - Immobilisation

- Apply tourniquet
- Cut a Such technique
- Wash wound with plenty
- Polyvalent antivenin 3) Antivewom-

1- Name disease phenomenon · ice Berg phenomenons 2- Name 3 disease which present this Phenomon in community . Hypertension · Diabetes : Anemia , Cancers 3- 3 Types of Screening methods - High Risk -- Multiphasic _ - Mass screening -

Goiter



Goiter is an enlargement of the thyroid gland in the neck. A goiter can be caused by a variety of factors and conditions, and treatment ranges from watchful waiting (no treatment) to surgery.

LALW 22 Screening

Pic-18

1- Iodine Deficiency Goiter

2- Impaired Jetal growth

~Cretinism

impaired brain development

Prevention.

3- oUse of iodized salt ordiany products o sea foods o eggs O Water

1C- 19

1- Name hazards to which these beauty parlor worker are exposed?

Chemical allergy Steam burning Cut Jum sharp aquipments Infection from customers

2. How these hazards be prevented?
Proper Training
Protective equipments.

Q21. A primigravida gave birth to male baby. Mother is diagnosed case of TB.

What advice is necessary regarding:

1- Immunization of child BCG vaccine to baby, 0.05 mil I/D

2- Breast feeding

Breast feeding will start

Mother should use mask while feeding

Regular treatment - INH

With her child. She is known case of pulmonary TB.

What Advice you will give to prevent transmission of disease to her child?

- Cover mouth when child is near
- Treatment
- Vaccination of child
- Periodic examination of child

LQYI Food manager of restaurant comes to you for counselling. How the food Sanitation of restaurant can be improved? What Advice you will give?

of Clean habits & personal hygiene of

- D-Any food handler suffering from a disease should be restricted from food handling
 - 3- Clean cooking utensils
- 19- Clean woking environment

population was 10,000 & total no deaths were aso. Out of which 5 were attributed to accidents & 20 to maternal mortality in the same year.

1- Calculate Crude death rate:

CDR = no. 07 deaths x1000 mid year pop.

= 250/10000 X1000

= 12.5 / 1000 mid Year population.

in a closed community consisting of 6000 people, 30 cases of upper respiratory tract injections were reported during mouth of June i- Calculate Incidence rate URTI for mouth of June = no. of new cases x 1000

pop. at risk

= 30 ×1000

= 5/1000

2- 2 uses of incidence rate:

- (i) For knowing the etiology
 - (ii) For knowing efficacy of preventive measures & window of diseases.

population was 10,000 & total no deaths were aso. Out of which 5 were attributed to accidents & 20 to maternal mortality in the same year.

1- Calculate Crude death rate:

CDR = no. of deaths x1000

= 250/10000 X100D

= 12.5 /1000 mid year population.

a- Can this rade be used to compare mortalities of any a wealities?

NO, CDR do not mention specific age death rate.

First standardize to compare two localities

11000

Q121- A 45 year old man is sitting in your clinic. His cholesterol levels is high. What counselling you will do?

- -- Use 07 Balanced diet -
- -Reduction in Fried items -
- -increase in dieterry fiber
- ·- more exercise ~
- ·- no alcohol ~
- no smoting

Q14- During a measles out break, out of 400 Students 100 became absent from school. Within a week additional 150 students were diagnosed with measles.

1-Calculate Secondary Attack Rate (SAR)

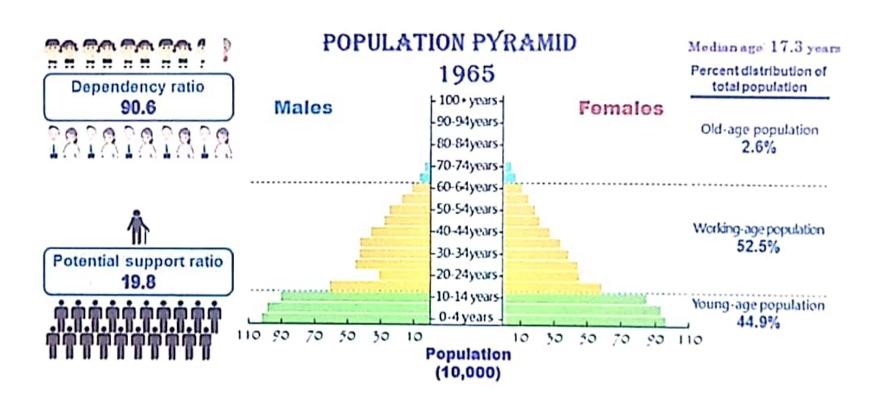
$$\frac{SAR}{300} = \frac{150}{300} \times 100$$

$$= 50$$

2- Give two limitations of SAR (in only used for infectious disease (ii) Digficult. if primary cause is infected. since long

(2) On addition of chlorine in water, which reactions take place at points A,B, and C. Ans & Formation of chloramines - Break down of " -9 " Point chlorination. Name test you detection of residual Conlovine? Orthotolidine test. Ans

Population pyramid



A population pyramid, also called an "age-sex-pyramid", is a graphical illustration that shows the distribution of various age groups in a population(typically that of a country or region of the world), which forms the shape of a pyramid when the population is growing.

Pic- 20

1- Identify diagram. Which type of wuntry it exhibit? Population pyramid - developing Country

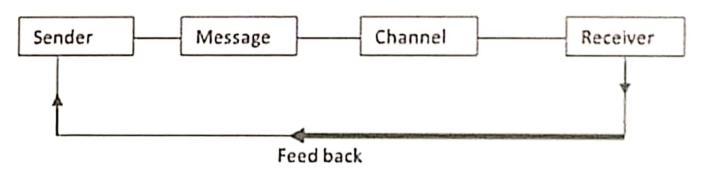
2- Label:
A -> Male
B -> Female
C -> Age

Station # 01

For Candidate:

Task:

Carefully observe the given diagram/photograph and answer the following questions:



3

- 1. Identify the indicated process in the above diagram
- 2. Give six principals of this process

For Examiner

- 1. Communication process
- 2.
- i. Interest
- ii. Participation
- iii. Motivation
- iv. Known to unknown
- v. Comprehension
- vi. Learning by doing
- vii. Reinforcement

Carefully observe the given diagram/photograph and answer the following questions:



 Identify the scenario 	1
2. Enlist risks from such situation	2
3. How these can be prevented	1

1. Identify the scenario	1
2. Enlist risks from such situation	2
3. How these can be prevented	1

For Examiner

- 1. Farmer working in field
- Effects of hot climate, chances of mechanical injuries, some zoonotic disease, effects of sprays, respiratory problems
- 3. Training, use of safety equipment (head covers, masks, gloves, goggles)

Carefully observe the given diagram/photograph and answer the following questions:



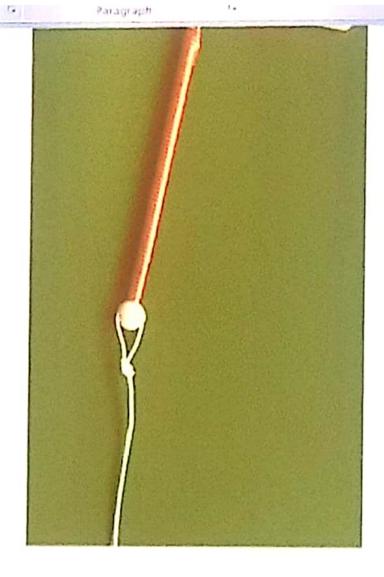
 Identify the situation 	1
2. What are the risks of this process	2
3. What Govt. action is needed for its prevention	1



1.	Identify the situation	1
2.	What are the risks of this process	2
3.	What Govt, action is needed for its prevention	1

For Examiner

- Polluted water falling in main water stream
- 2. Risk of infectious (bacterial, viral, protozoal diseases), non infectious (chemical poisoning) and cancers
- 3. Legislation for throwing waste water after detoxication



1. Identify the item	1
2. What is its name	1
3. What are the complications of its use	2

1. Identify the item	1
2. What is its name	1
3. What are the complications of its use	2

Key:

- 1. IUCD
- 2. CopperT380A
- 3. Pain, bleeding, ectopic pregnancy, pregnancy, infection



1.	Identify the process going on	1
2.	Name the problem for which it is done	2
3.	What are complaints of this problem	1

Key:

- 1. Persons is given citrus
- 2. Scurvy
- 3. Bleeding gums, ecchymosis, delayed wound healing

Carefully observe the given diagram/photograph and answer the following questions:

Age	No of people in community	No of deaths from a disease 'x' in community
young	8000	69
old	11000	115

Calculate age specific death rate for young and old from disease 'X' in community

4

<u>Key</u>

ASDR in young = $\underline{69}$ x 1000 = 8.6/1000

11000 110

Calculate age specific death rate for young and old from disease 'X' in community

<u>Key</u>

ASDR in young =
$$\underline{69}$$
 x 1000 = 8.6/1000 8000

ASDR in old
$$= 115 \times 1000 = 10.45/1000$$

11000

4

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1.	Identify the problem	1
2.	What is the causative agent of this problem	1
3.	How it can be prevented	2

<u>Key</u>

- 1. Chicken pox
- 2. Varicella-zoster virus
- Isolation of cases
 Disinfection of <u>fomites</u>
 Vaccination (<u>Varivax</u> 0.5 ml S/C 12 months to 12 yrs)



1. Identify the problem	1
2. What is the cause of this problem	1
3. How it can be managed	2

- 1. Odematous (moon face)
- 2. Protein Energy Malnutrition
- 3. High quality food, immunization, control of infection



1. Identify the scenario	1
2. What problem can arise from this process	1
3. What are preventive measures	2

For Examiner

Key

- 1. Coal mine workers
- 2. Anthracosis
- 3. Use of mask
- 4. Mechanization of process

Task:



1. Identify the situation	1
2. What global effects can develop from it	3

- 1. Atmospheric pollution
- 2. Green house
 Global warming
 Ozone depletion
 Acidic rain



1. Identify the organism	
2 What disease it can transmit	2

- 1. Hard tick
- 2. Rocky Mountain spotted fever (RMSF)



1. Identify the scenario	1
2. How will you manage such situation	3

For Examiner

- 1. Flood
- Rescue of victims, first aid, shifting to safe place, food, shelter, rehabilitation

A 40 years old lady weigns 80 kg and her height is 1.8 meter.

- Calculate her BMI
- Interpret her nutritional status

Key:

1. BMI =
$$\frac{\text{Wt. (Kg)}}{\text{Ht. m}^2} = \frac{80}{(1.8)^2} = 24.6$$

2. She has normal weight

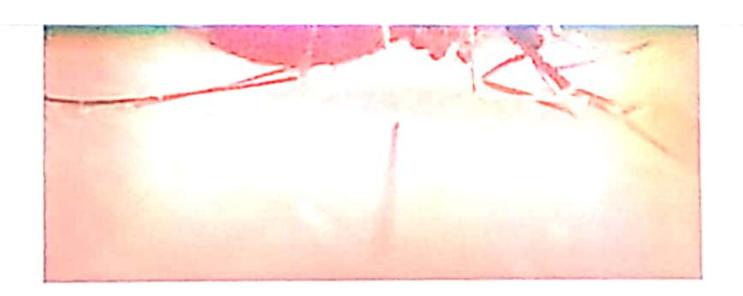
1. Identify the organism	1
2. What disease it can transmit	1
3. What community measures are needed	tc
prevent these diseases	2

- 1. Anopheles mosquito
- 2. Malaria, Filaria
- 3. Environmetal sanitation (eradication of breeding places)



 Identify the scenario 	1
2. Enlist risks from such situation	2
3. How these can be prevented	1

- 1. Farmer working in field
- Effects of hot climate, chances of mechanical injuries, some zoonotic disease, effects of sprays, respiratory problems
- 3. Training, use of safety equipment (head covers, masks, gloves, goggles)



1. Identify the organism	1
2. What disease it can transmit	1
3. What community measures are needed	tc
prevent these diseases	2

<u>Key</u>

1 Anachalar marquita

Carefully read the given scenario and answer the following question:

An investigator, test 200 individual to determine the prevalence of Iron deficiency anemia.

The results were as follows:

Test	Anemia present	Anemia absent
+	100	20
-	20	60

- 1. Calculate the Sensitivity and specificity of the test 2
- 2. Calculate the PPV and NPV of the test

Key:

- 1. Sensitivity = $a/(a+c) \times 100 = 100/120 \times 100 = 83.3 \%$
- 2. Specificity = $d/(b+d) \times 100 = 60/80 \times 100 = 75\%$

+	TOO	20
-	20	60

2

- Calculate the Sensitivity and specificity of the test
- 2. Calculate the PPV and NPV of the test 2

Key:

1. Sensitivity =
$$a/(a+c)$$
 x 100 = 100/120 x 100 = 83.3 %

2. Specificity =
$$d/(b+d) \times 100 = 60/80 \times 100 = 75\%$$

3. PPV =
$$a/(a+b)$$
 x $100 = 100/120$ x $100 = 83.3$ %

4. NPV =
$$d/(c+d) \times 100 = 60/80 \times 100 = 75\%$$



1. Identify the problem	2
2. What s the cause of it	1
3. How this disease can be prevented	1

<u>Key</u>

- 1. Glossitis and dental carries
- 2. Vitamin A deficiency
- Vitamin A rich foods (dairy products, liver, egg, green and yellow vegetables.

Task:

A school teacher comes to you with the problem that increasing No of students from his class are complaining for teeth problem and asking for leave. He also narrated that the teeth of most of students are decayed.

- 1. What could be the main cause of this problem 2
- 2. What advice you will for prevention of this problem 2

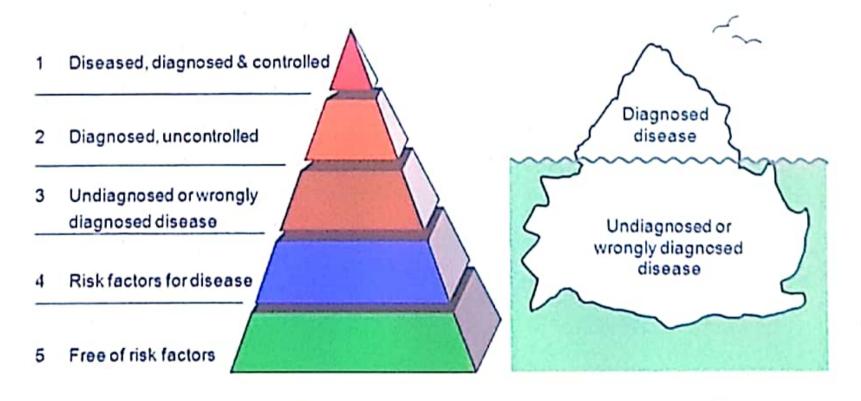
Key

I

- Deficiency of fluoride
 Use of sticking carbohydrate (candies)
 Lack of oral hygiene
- Testing of local water for fluoride level, if less use of fluoride added tooth paste
 Regular brushing of teeth
 Less use chocolates/candies

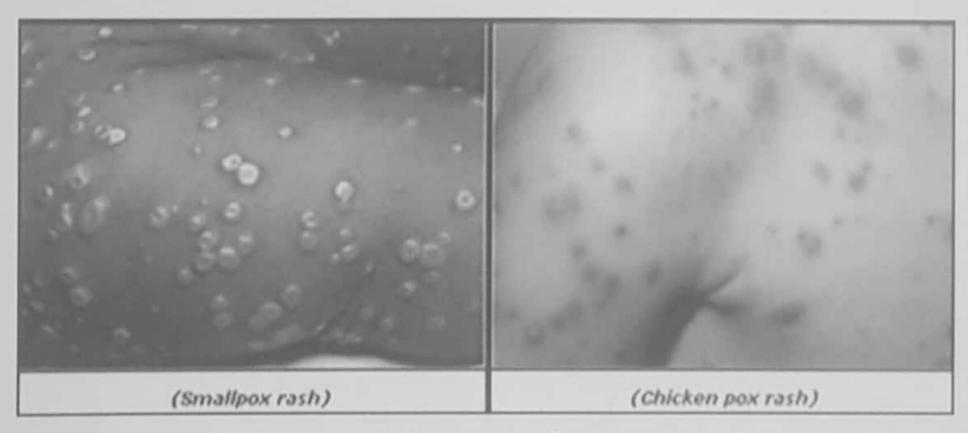
Iceberg phenomenon of the disease

Iceberg phenomenon?



The iceberg phenomenon describe a situation in which a large percentage of a problem is subclinical, unreported, or otherwise hidden from view. Thus, only the "tip of the iceberg" is apparent to the epidemiologist.

Pustular eruption in smallpox and chickenpox



A pustule is a vesicle or bulla containing purulent material