PRINT

Chapter Name:4. Keeping diseases away

Qn No. 1 On Certain indications related to diseases are given below. Write suitable reasons for each. 1. An ash coloured thick coating forms in the throat in Diptheria disease. 2. It is necessary to prevent the onset of water borne diseases in flood affected parts. Hint. 1. Cells in the mucus membrane which are destroyed by the toxins produced by Diphtheria bacteria make an ash colored thick coating in the throat. 2. In flood affected areas, there is the chance for the multiplication of mosquitoes and other vectors in stagnant water. Hence it is necessary to prevent the onset of water borne diseases in flood affected areas. Marks :(2) Hide Answer Qn No. 2 Chapter Name:4. Keeping diseases away On As per the given model, arrange the following informations Disease -Pathogen -Victim a) Foot and mouth disease b) Blight c) Malaria d) Bacteria e) Virus f) Protozoa g) Humans h) Cattle i) Plant Hint. Pathogen Disease Victim а е h d b i с f g Marks :(3) Hide Answer Qn No. 3 Chapter Name:4. Keeping diseases away Qn. Correct mistake if any by replacing the underlined word a) Haemophilia is a <u>lifestyle disease</u> b) Ultimate source of Nipah is Pig c) Emphysima affects brain Hint. a) Genetic disease b) Bat c) Lungs Marks :(3) Hide Answer Qn No. 4 Chapter Name:4. Keeping diseases away Qn. Analyse and write the path of Nipah virus from the source to human Bat \longrightarrow Fruit \longrightarrow Human Bat \longrightarrow Human Marks :(3) Human 🛶 Human Hide Answer Qn No. 5 Chapter Name:4. Keeping diseases away Qn. Classify the following diseases on the basis of pathogens a) Leptospirosis b) Nipah c) Athlets foot d) Malaria .

Hint. a) Bacteria disease

b) Virus	disease
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c) Fungal disease

d) Protozoal disease

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Qn No. 6	Chapter Name:4. Keeping diseases away
Qn. Analyse the following symptoms and answer the questions. * Fever	
* Sore throat	
* Swelling of lymph glands in neck	
* Grey coloured layer formed in throat	
a) Write the name of this disease and its pathogen	
b) Prevention is better than cure. This slogan is very much applicable to this disease. Why?	
Hint.	
a) Diphtheria. Coryne bacterium diphtheriae	
b) This disease is fatal. It is very difficult to treat this disease. Highly infectious. So the better option is vaccination to prevent the disease.	
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	Chapter Nemo: 4 Kaaning Paris
Qn No. 7	Chapter Name:4. Keeping diseases away
Qn. Complete the concept map.	
Pathogen	
Protozoa A B	
C filenasis Ringworm D	
Pever with sivering Red, round blisters in skin	
Hint. A- Worms	
B-Fungus	
C- Malaria	
D- Athletes foot	
E- The lymph vessels in the legs swell. കാലുകളിലെ ലിംഫ് വാഹികൾ വീങ്ങുന്നു.	
F- Red, round blisters in skin.	
	Marks :(3)
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Qn No. 8	Chapter Name:4. Keeping diseases away
Qn. Observe the pictures A and B.	
A B	
a) Write the reason for the differences in the shapes of RBCs in pictures A and B.	
b) Name the disease indicated by 'B'.	
c) To which group does this disease belong?	
d) Give the reason why the patients with this disease experience anemia.	
Hint. a) A- Normal red blood cell, B- Sickled RBC	
b) B- Sickle cell anemia	
c) Genetic disease	
d) The oxygen carrying capacity of red blood cells decreases. The sickle shaped RBCs get collected in the blood vessels and block the flow of blood in them.	
· · · · · · · · · · · · · · · · · · ·	Marks :(4)



a) Malaria

b) Filariasis

c) Must take mosquito control measures (Observance of dry day, environmental hygiene)

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Marks :(3)

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Qn No. 12			Chapter Name:4. Keeping diseases away	
11	cating the spread	of various diseases in an area during rainy season is given below. Analyse and answer the following questions.		
Diseased persons	B ¢ Diseases	Image: Analytic and Analyt		
	pathogen that cor	ntracted most? y the filarial worm?		
		the spread of these diseases.		
Hint. a) A- Protoz b) B- filarias c) C- Contro	is	osquitoes, keep hygienic environment, avoid the stagnation of water.	Marks :(3)	
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Qn No. 13			Chapter Name:4. Keeping diseases away	
Qn. Evaluate the statements given below and write the significance of each. 1. Vaccination is the best way to prevent Diptheria. 2. Consuming partially eaten fruits by bats pose serious health hazards.				
 Hint. 1. Antitoxins which act against the toxins are used to protect the uninfected cells. But, if the disease becomes severe the patient cannot be recovered through medication. So vaccination is the best preventive method. 2. Consuming partially eaten fruits by bats with viruses like NIPAH pose serious health hazards because of the possibility of disease occurrence. So it is necessary to avoid its consumption. 				
Hide Answer	ר			
Qn No. 14			Chapter Name:4. Keeping diseases away	
Qn. Identify the Disease Rate fever	diseases given an	id complete the table giving the causative organism and the symptoms of diseases. Pathogen Syn	nptom	
Tuberculosi	S			
Diphtheria				
AIDS				
Hint.				
Disease	Pathogen	Symptom		
Rate fever	Leptospira bacteria	Severe fever, headache, musclepain, redness in eyes, etc. are the major symptoms.		
Tuberculosi	Mycobacterium ^s tuberculosis	Loss of body weight, fatigue, persistent cough		
Diptheria	Corynebacterium			
-	diphtheriae	lymph glands of the throat.		
AIDS		Reduces the immunity of the body, various other pathogens cyenter the body and make the condition of AIDS even more fatal		
	Virus	fatal.		

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Qn No. 15 Chapter Name:4. Keeping diseases aw	зу
Qn.	
Based on the symptoms given, identify the disease. Describe the cause of spread and mention the preventive measures.	
Increased amount of Bilirubin in blood. Vellew celer in the white of eve and neil	
Yellow color in the white of eye and nail.	
Hint.	
Disease- Hepatitis	
Mode of spread: Disease gets transmitted through contaminated food and water, blood components and excreta of the patient. Preventive measures: - Keep food materials clean, drink only boiled and cooled water.	
Marks: - Reep root matchalo shan, annik only bolica and ocolea match.	(3)
Hide Answer	
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Qn No. 16 Chapter Name: 4. Keeping diseases aw	зy
Qn.	
Identify the mode of spread of the following diseases and list suitable preventive measures.	
1. Rate fever 2. Diphtheria	
3. Tuberculosis	
Hint.	
1. Rat fever	
Mode of spread: The bacteria that comes out through the urine of rat, dog and certain other animals remain alive in stagnant water and moisture. When bacteria reach blood through wounds and affect body	
cells.	
Preventive measures: Destruction of rats, remove stagnant water, ensure germ free environment, keep a hygienic environment.	
2. Diphtheria	
Mode of spread: When the patient speaks, coughs or sneezes, the pathogens spread into the air and thereby to others. Preventive measures: - Receive anti diphtheria vaccine, avoid contact with diptheria patients.	
3. Tuberculosis	
Mode of spread: When the patient speaks, coughs or sneezes, the pathogens spread into the air and thereby to others.	
Preventive measures: - Receive BCG vaccine, avoid contact with diphtheria patients.	
Marks :	3)
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Qn No. 17 Chapter Name:4. Keeping diseases aw	av
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Qn. .Observe figures A and B	
a)What is the reason for the difference in the shape of the red blood cells in figures A and B?	
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Qn No. 18

Qn. Chematherapy and radiation therapy are used in the treatment of which disease? What are the factors which lead to this disease?		
Hint. .For the treatment of Cancer. virus, radiations, environmental factors, smoking, hereditary factors		
Marks :(3)		
Hide Answer		
Qn No. 19 Chapter Name:4. Keeping diseases away		
Qn. Microorganisms cause all the diseases which affect human beings. (http://qbms.scert.kerala.gov.in/frontend/apps/modules/QUESTIONS/tb_questions_approve/view_question.php? qid=MzMz⊂_type=Mg==⟨=MQ==) What is your response towards this opinion which arouse during a class room discussion.? (http://qbms.scert.kerala.gov.in/frontend/apps/modules/QUESTIONS/tb_questions_approve/view_question.php? qid=MzMz⊂_type=Mg==⟨=MQ==) Explain with suitable example.		
Hint. .This opinion is not correct. All diseases are not caused by micro orgvanisms. For Example, Haemophilia occurs due to deffect in the genes.		
(Any other non pathogenic diseases - life style diseases, Deficiency diseases, hormone diseases)		
Marks :(2)		
Qn No. 20 Chapter Name: 4. Keeping diseases away		
Qn. .Write four concepts which can be included in the poster prepared by the school health club as part of tuberculosis awareness program.		
Hint.		
Qn No. 21 Chapter Name:4. Keeping diseases away		
Qn. Arrange the diseases given in the box based on pathogens which causes them, giving appropriate heading		
Athletes foot, Nipah, Diphtheria, ringworm, blight, mosaic disease		
Hint. Bacteria Fungus Virus		
Blight Athletes foot Nipah		
Diphtheria ringworm mosaic disease Marks :(3)		
Hide Answer		
Qn No. 22 Chapter Name: 4. Keeping diseases away		
Qn.		
Anthrax is a disease transmitted due the contact with animals.		
a) Which microbe causes this disease ? b) Name two other diseases caused by the same type of microbe and the mode of transmission		
Hint.		
.a) Bacteria		
b) Through air - Tuberculosis Through water contaminated with urine of rat		

Hide Answer

Qn No. 23 Chapter Name:4. Keeping diseases away
Qn. · Characteristic features of some microbes are given below . Identify them (http://qbms.scert.kerala.gov.in/frontend/apps/modules/QUESTIONS/tb_questions_approve/view_question.php? qid=MzM4⊂_type=Mg==⟨=MQ==) a) Unicellular organisms without a prominent nucleus. Most of the cell organelles are absent., (http://qbms.scert.kerala.gov.in/frontend/apps/modules/QUESTIONS/tb_questions_approve/view_question.php? qid=MzM4⊂_type=Mg==⟨=MQ==) b) Multiplies by binary fission. Simple structure with genetic material covered with a protein coat.
Hint. .a) Bacteria b) virus Hide Answer
Qn No. 24 Chapter Name: 4. Keeping diseases away
Qn. News report School authorities refused the stay of HIV infected student in school hostel, as the disease may get transmitted to other students. a) What is your to response as a science student to this news report ? b) What kind of approach is needed towards HIV positive individuals?
Hint. .a) HIV spreads only through body fluids. It doesn't spread by touch, staying together, shaking hands and sharing food. So the child should not be denied permission to stay in the hostel. b) No need to fear the AIDS patient. The patient should be seen with compassion. The patient and relatives should be awared about the disease and treatment. should not isolate them in society. Marks :(2) Hide Answer
Qn No. 25 Chapter Name: 4. Keeping diseases away
Qn. A micro organism reduces the immunity of the body by reducing the number of lymphocytes a) Which microbe is this ? b) Name the disease caused by this microbe.

c) What are the different means of transmission of this disease ?

Hint.

.a) HIV

b) AIDS

c) By sharing needle and syringe contaminated with HIV components. Through sexual contact with HIV infected person. Through the reception of blood and organs contaminated with HIV. From HIV infected mother to the foetus

Hide Answer

 Qn No. 26
 Chapter Name: 4. Keeping diseases away
 Qn.

 Observing dry day once in a week helps to control diseases like dengue fever, chikungunya etc. Evaluate this statement
 Marks :(2)

 Hint.By observing Dry Day, we can control the multiplication of mosquitoes. Thus we can control the diseases like Dengue fever, Chickungunya, etc
 Marks :(2)

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 Hide Answer
 Marks :(2)

Marks :(3)

Chapter Name:4. Keeping diseases away

Qn No. 27

Qn.

Analyse the statements given below and identify the diseases.

a) The number of lymphocytes in the body reduces and immunity of the body declines.

b) Flow of lymph from the (http://qbms.scert.kerala.gov.in/frontend/apps/modules/QUESTIONS/tb_questions_approve/view_question.php?qid=MzQz&sub_type=Mg==&lang=MQ==)lymph gland gets obstructed. c) Oxygen carrying capacity reduces due to the deffect in the structure of haemoglobin Hint. .a) AIDS b) Filariasis c) Sickle cell anaemia Marks :(3) Hide Answer Qn No. 28 Chapter Name:4. Keeping diseases away Qn. Choose the correct statement about viruses. i) Viruses have a simple body structure with DNA or RNA covered by a protein coat. ii) All the cell organelles are present in viruses. iii) Viruses multiply their number by utilising the genetic mehanism of the host cell. iv) viruses will not attack microbes like bacteria. a) i and ii are correct b) i and ii are correct c) ii and iii are correct d) iii and iv are correct Hint. . b) i and ii are correct Marks :(1) Hide Answer Qn No. 29 Chapter Name:4. Keeping diseases away Qn. .Complete the table в Α Fungus Red rashes on the skin Through air Tuberculosis С р Malaria Through mosquito Е F Filarial worm Swelling in the lymph gland G н Hint. A. Ringworm B. through contact C. Bacteria D. persistent cough E. plasmodium F. High fever with shivering G. Filariasis H.. Through mosquitoes Marks :(4) Hide Answer Qn No. 30 Chapter Name:4. Keeping diseases away Qn. .The following are some health habits to prevent certain diseases. Properly pair these habits with the diseases listed in the box. a) Avoid smoking habits. b) Avoid mosquitoes. Emphysema, Athletes' foot, Dengue fever Hint. .a) Emphysema b) Dengue fever Marks :(2)

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Qn. A particular type of microbe causes diseases like Nipah, chikungunya and Hepatitis. a)Identify the microbe. b)How does this organism increase its number ? c)Explain the general structure of this microbe . Hint. .a) Virus b) multiplies by taking control over the genetic mechanism of the host cells. c) simple structure with a DNA or RNA molecule within a protein coat Marks :(3) Hide Answer Qn No. 32 Chapter Name:4. Keeping diseases away Qn. The pathogen enters the body and multiplies its number by utilising the genetic mechanism of the lymphocytes. a) Which microbe is mentioned here ? b)Name a disease caused by this pathogen ? c) write four modes of transmission of this disease.. Hint. .a) HIV b) AIDS c) Through sexual contact with HIV infected person. From HIV infected mother to the foetus By sharing needle and syringe contaminated HIV components. Through the reception of blood and organs contaminated with HIV Marks :(4) Hide Answer