

Unit - 5

When Equilibrium Disrupts

PART - A**Qn : 5 : I**

Find the relationship of the word pair and fill up.

Malaria : Protozoa:

Ring worm :

Time - 1 min

Score - 1

Q.5.2 :

Find the relationship of the word pair and fill up.

Bunchy top : Virus

Mosaic disease :

Time - 1 min

Score - 1

Q : 5 : 3

Find the relation between the word pair and fill up.

Wilt disease of Brinjal : Through seeds.

Blight disease of Paddy plant :

Qn : 5 : 4

Find the odd one and note down the common features of the others.

- Malaria, Tuberculosis, Dengue fever, Chikungunya.
- Chickenpox, Rabies, Cholera, Swine flu.
- Hemophilia, Tuberculosis, Cholera, Rat fever.
- Anthrax, Foot and mouth disease, Mastitis, Pulloram.

Time - 1 x 4 min

Score - 1 x 4

Q.5.5 :

The description of a disease is given in the box. Identify the disease.

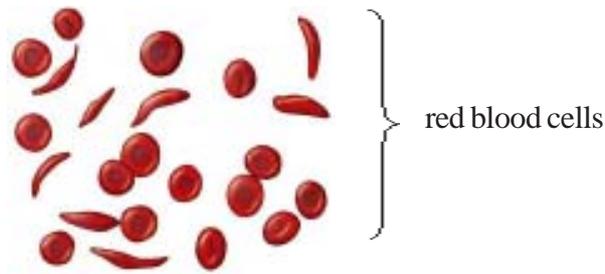
- | |
|--|
| <ul style="list-style-type: none"> • Structural deformity occurs in the haemoglobin molecule of the red blood cells. • The red blood cells undergo change in shape and transform into sickle-shaped cells. • Oxygen transport to the tissues is affected. |
|--|

Time - 1 min

Score - 1

Qn : 5 : 6

Shown in the picture are the symptoms of a disease due to genetic disorder. Identify the disease.



Time - 1 min
Score - 1

Qn : 5 : 7

Find the indications that are related to virus only.

- 1) No cellular mechanism of their own to carry out metabolism
- 2) The enzymes released by them destroy our cells.
- 3) After entering the body they multiply by division.
- 4) There are pathogenic and beneficial ones.

Time - 1 min
Score - 1

Q.5.8:

- a) Brown coloured dry spots appeared on leaves of plants in Sheeba's vegetable garden. Leaf veins turned yellow and the lower surface of leaves appeared purple coloured.
- b) Can you tell her which element when deficient caused this?
- c) Suggest a solution to this.

Time - 2 min
Score - 1

Q.5.9:

From among the following symptoms, find out those of cholera only, and note them down.

- Blood and mucus in stool.
- Severe fever
- Rice water like stool.
- Abdominal pain, constipation.
- Diarrhoea, vomiting.

Time - min
Score -

PART - B

Q.5.10:

Prepare few sentences for 2 placards for the awareness rally to be conducted in association with the Mosquito Day, Aug. 20.

Time - 3 min

Score - 2

Q.5.11:

One of the circumstances that may cause cancer is given below. Write two more.

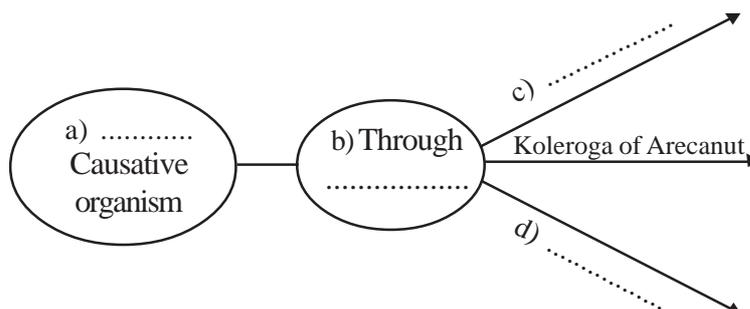
- Ultraviolet rays
-
-

Time - 2 min

Score - 2

Q.5.12:

Fill up the flow chart on plant diseases suitably.



Time - 5 min

Score - 3

Qn : 5 : 13

Take note of a doubt raised by a person in an Awareness class about Alcoholism. Is there any danger in using soft alcohol like beer?

What is your reaction to this?

Time - 2 min

Score - 2

Qn : 5 : 14

In smokers, the ability of blood to receive oxygen is low?

- What is the reason for this?
- How will this affect health?

Time - 2 min

Score - 2

Qn : 5 : 15

Tabulate the symptoms appropriately.

- a) The number of red blood cells and the haemoglobin in them, less than normal.
- b) Uncontrolled bleeding even from slight wounds.
- c) Anaemia, difficulty in doing strenuous work.
- d) Blood platelets and Ca⁺⁺ ions, normal in blood.

Haemophilia	Sicklecell Anaemia
• •	• •

Time - 4 min

Score - 2

PART - C

Qn : 5 : 16

The symptoms of certain diseases are given. Identify the disease and find the causative organism.

Symptom	Disease	Causative agent
<ul style="list-style-type: none"> • Headache • Severe fever • Abdominal pain, constipation 		
<ul style="list-style-type: none"> • Continuous dry cough, fever • Blood - tinged sputum • Chest pain 		
<ul style="list-style-type: none"> • Severe fever • Severe headache • Burning sensation all over the body • Fever recurring at intervals 		

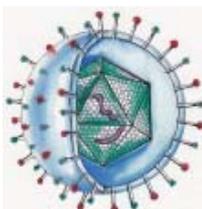
Time - 4 min

Score - 3

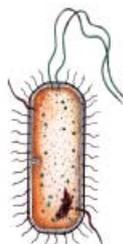
Qn : 5 : 17

Identify the group to which the microorganism in the given picture belongs and note down the name of a disease each caused by each.

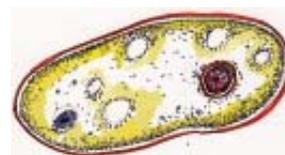
A



B



C



Time - 4 min

Score - 3

Qn : 5 : 18

Prepare 3 messages to be included in the poster for awareness against Alcoholism and drugs.

Time - 4 min

Score - 3

Qn : 5 : 19

Arrange the facts in column B suitably in accordance with column A.

1	Anthrax	<ul style="list-style-type: none">• Severe fever, blisters in the mouth and between hoofs, aversion to food.
2	Foot and mouth disease	<ul style="list-style-type: none">• Udder swells due to inflammation. Milk production reduces. Pus in nipples.
3	Pulloram	<ul style="list-style-type: none">• Sudden fever, bleeding from the nose and mouth.• Frothy discharge from mouth
		<ul style="list-style-type: none">• White and loose stool• Giddiness• Suffocation

Time - 3 min

Score - 3

Qn : 5 : 20

Cholera and Chikunguniya have spread in your locality. Make a story board to prepare a presentation of 4 slides to conduct awareness against these diseases.

- Indicator :
 - Germs
 - Disease transmission
 - Defence
 - First aid

Time - 4 min

Score - 4

Qn : 5 : 21

Suppose you have come to know that there are chances of diseases like hepatitis, dengue fever etc. in your locality. Prepare 6 relevant questions for a questionnaire for the data collection to plan immunisation activities.

- Indicator :
 - Disease transmission - Possibility

Time - 3 min

Score - 3

Qn : 5 : 22

From the following, choose and note down the diseases transmitted through mosquitoes.

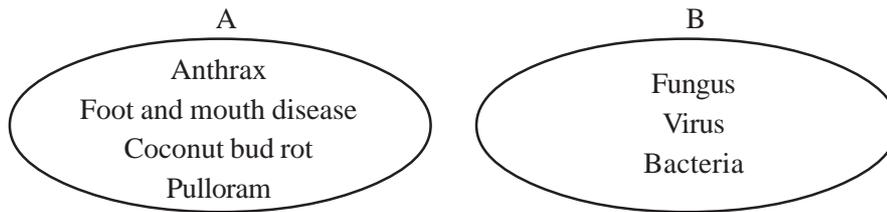
Tuberculosis, Chicken pox, Filariasis, Malaria, Swine flu, Chikunguniya, Cholera, Typhoid, Japan fever, Dengue fever.

Time - 2 min

Score - 2½

Qn : 5 : 23

Make pairs of the diseases and their causative organisms



Time - 3 min
Score - 1½

Qn : 5 : 24

Arrange appropriately

A Plant	B Disease	C Causative organism
1. Coconut	a. Bunchy top	i. Bacteria
2. Plantain	b. Blight	ii. Fungus
3. Paddy plant	c. Bud rot	iii. Virus
	d. Quickwilt	iv. Protozoa

Time - 3 min
Score - 1½

Qn : 5 : 25

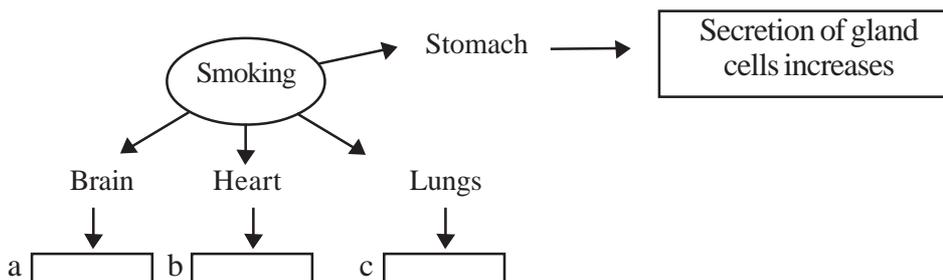
Given below are certain excerpts from the answerpaper of a student, Akshay. Correct the mistakes, if any.

Disease	Cause	Symptom
Filariasis	Anopheles mosquito	Worms grow in lymph vessels
Tuberculosis	Virus	Fever recurring at intervals
Chicken pox	Bacteria	Blisters appear on the body
Dysentery	Protozoa	Blood and mucus in stool
Malaria	Culex mosquito	Blood - tinged sputum

Time - 2 min
Score - 3

Qn : 5 : 26

Note down how smoking affects the given organs adversely.



Time - 3 min
Score - 3

Qn : 5 : 27

Arrange the plant diseases given in the box suitably in the table.

Blight, wilt, Mosaic disease, Bud rot, Koleroga, Quickwilt, Bunchy top		
A Transmitted through wind	B Transmitted through pests	C Transmitted through seeds

Time - 3 min

Score - 3

Qn : 5 : 28

Pair the given diseases on the basis of its cause.

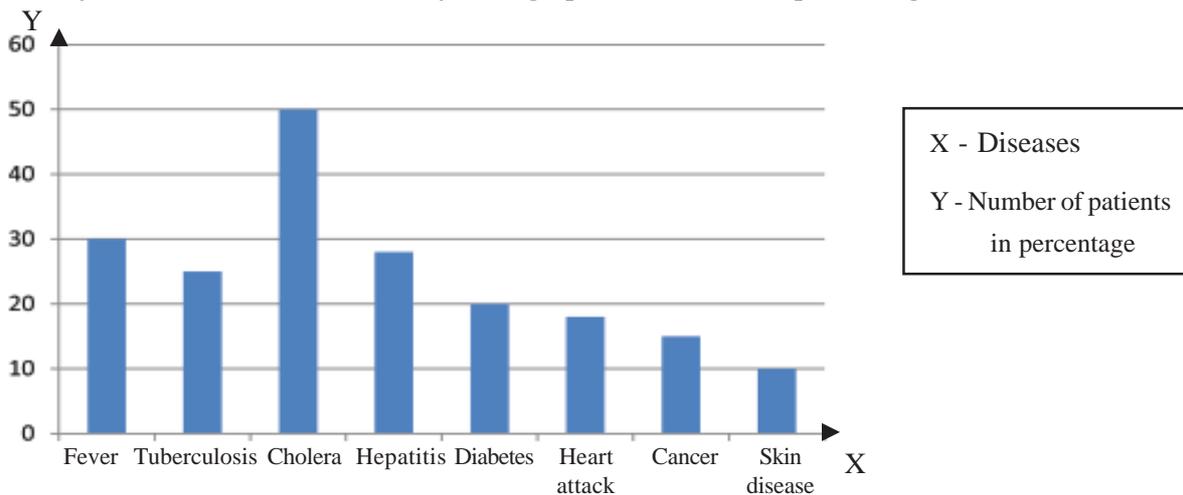
- Blight disease
- Chicken pox
- Haemophilia
- Mosaic disease
- Tuberculosis
- Sickle-cell anaemia

Time - 3 min

Score - 3

Qn : 5 : 29

Given below is a graphical representation of the data of individuals who came for treatment in a year at a Community Health Centre in Surat. Analyse the graph and answer the questions given below:



- Which is the disease seen commonly in this locality?
- What may be the reason for this disease being more prevalent?
- Write 4 suggestions for a pamphlet to be distributed at the awareness programme, against this.

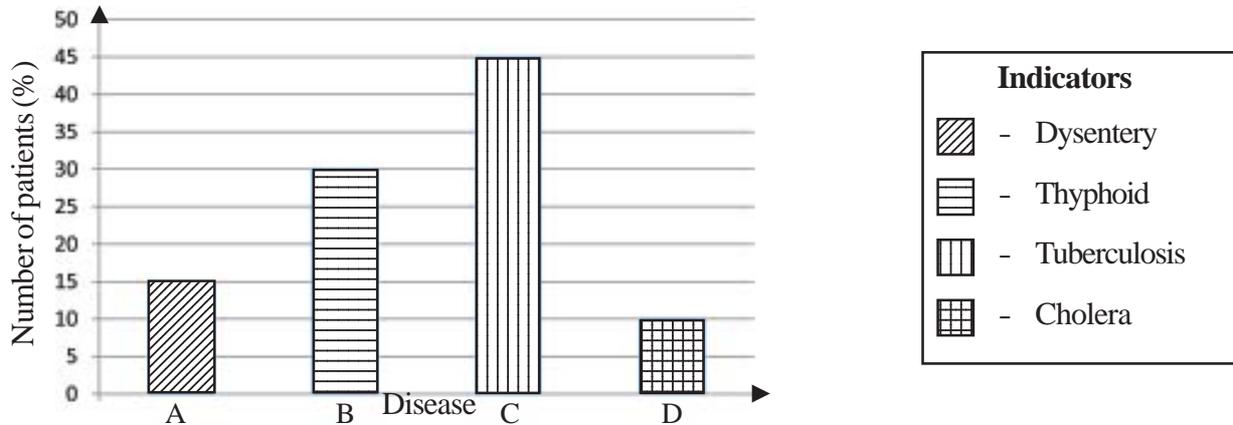
Time - 3 min

Score - 3

Qn : 5 : 30

The data of a health survey conducted by school students in a city is indicated in the graph.

Analyse the graph and answer the questions given below:

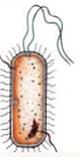
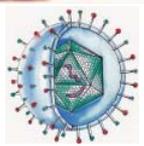


- a) Which is the most common disease?
- b) What are the symptoms of that disease?
- c) To which group does the causative organism of each disease belong?

Time - 3 min
Score - 4

Qn : 5 : 31

Rearrange A and C to suit pictures in A.

	A	B	C
1.		a. Protozoa	i No cellular mechanism of their own to carry out metabolic reactions.
2.		b. Fungus	ii The enzymes released by them destroy the epithelial cells of the intestine.
3.		c. Filaria	iii After entering the body, they multiply by division.
4.		d. Bacteria	iv The enzymes released by them destroy cells.
		e. Virus	v. Lymph flow is obstructed by their growth.

Time - 3 min
Score - 4

Qn : 5 : 32

"Cancer will occur by smoking" said Reji

"Cancer will occur even without smoking" said Johnny

- a) What are the other reasons for cancer?
- b) In what other ways does smoking affect the body?

Time - 3 min
Score - 3

Qn : 5 : 33

Rearrange columns B and C according to the details given in column A in the table.

A	B	C
Chicken pox	Plasmodium	Culex
Malaria	Bacteria	Water, food
Filariasis	Virus	Air
	Filarial worm	Anopheles

Time - 3 min

Score - 3

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