

Unit - 6

Strategy of defence and treatment

PART - A

Qn : 6 : 1

Find out the relationship of the word pair and fill in the blanks:

Auto immune disorder: Rheumatic fever

Hyperimmunity :

Time - 1 min

Score - 1

Qn : 6 : 2

It was the observation that the rural farmers who were cured of cowpox do not get affected by small pox, that led Edward Jenner to invent smallpox vaccine. What may be the reason for these farmers not getting affected by small pox?

Time - 1 min

Score - 1

PART - B

Qn : 6 : 3

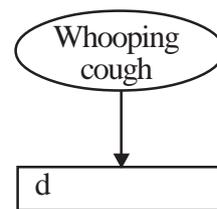
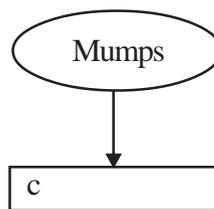
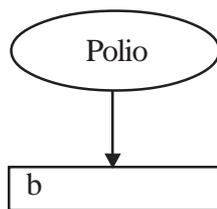
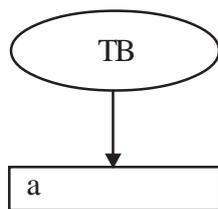
Germes are used as vaccine. So shouldn't vaccination cause diseases? What scientific explanation will you provide to clear Aneesh's doubt?

Time - 2 min

Score - 2

Qn : 6 : 4

Given below are a few diseases. Write the names of vaccines given against them.

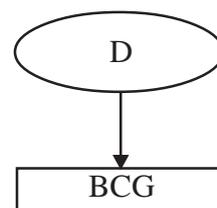
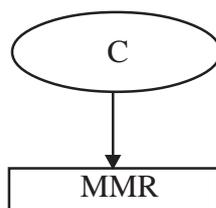
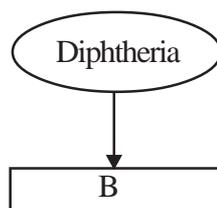
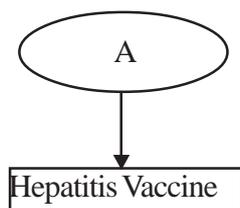


Time - 2 min

Score - 2

Qn : 6 : 5

Complete suitably the illustration related to diseases and the vaccines against them



Time - 2 min

Score - 2

Qn : 6 : 6

Khamaruneesa opined that rheumatic fever is caused by pathogens. Evaluate this statement and note down your view.

Time - 2 min
Score - 2

Qn : 6 : 7

From the following, write down those organs which can be donated while alive.

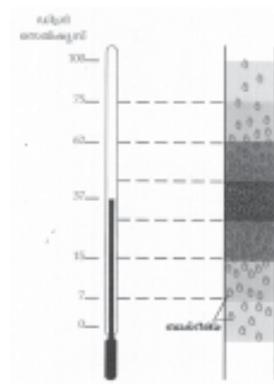
- Eye
- Skin
- Liver
- Heart
- Kidney
- Lungs
- Blood vessel

Time - 2 min
Score - 2

Qn : 6 : 8

Observe the illustration and answer the following :-

- a) What is the average temperature of the human body?
- b) How does the rise in temperature affect the body?
- c) Is the rise in body temperature (fever) a disease?



Time - 3 min
Score - 2

Qn : 6 : 9

Analyse the given indications and identify the organ.

- a) The waxlike substance seen here has germicidal effect
- b) The fluid that moistens and frequently washes this organ contains a germicide called lysozyme.

Time - 2 min
Score - 2

Qn : 6 : 10

Given below are the ways in which drinking water is used by 4 persons

- Remya : Taking boiled water mixed with raw water.
- Rakesh : Drinking refrigerated water
- Shruthi : Using the water from the tap as such
- Hemanth : Drinking boiled water after cooling.

2

- a) Among these whose habits are desirable?
- b) Evaluate the habits of others in relation to the portion on "multiplication of bacteria."

Time - 2 min
Score - 2

Qn : 6 : 11

Rajan who attended a class of Prakash Babu, a proponent of Naturopathy, expressed the view that antibiotics which are germicidal should not be used at all.

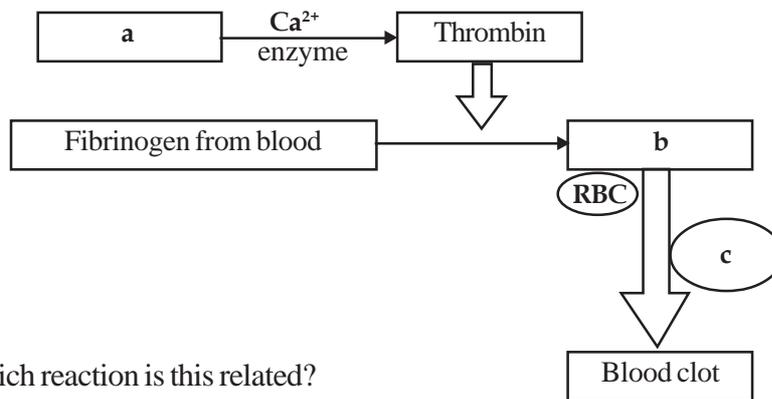
- a) Do you agree with Rajan's opinion? Why?

Time - 2 min

Score - 2

Qn: 6 : 12

Observe the given illustration.



- a) To which reaction is this related?

- b) Fill a, b, c.

Time - 4 min

Score - 2

Qn : 6 : 13

The symptoms of a disease are given.

Immunity of the body gradually decreases. Even minor diseases become critical.

- a) Which is the disease?
b) What is the reason for the loss of immunity?

Time - 2 min

Score - 2

Qn : 6 : 14

"Fibrin filaments form fine network. Red blood cells and platelets get trapped in this network and blood clot is formed."

During the group discussion on the concept of blood clot formation, Sherif raised a doubt :

"Why is it that the relatively larger white blood corpuscles are not entrapped in this network?"

Give your explanation to this.

Time - 3 min

Score - 2

PART - C

Qn : 6 : 15

Sherin hit her head while falling and the head swelled

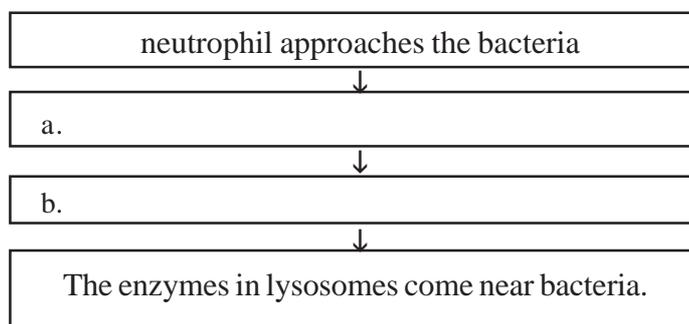
- Is this reaction useful to the body? Why?
- What is this type of reaction called?
- How is this reaction helpful in defending diseases?

Time - 3 min

Score - 3

Qn : 6 : 16

Observe the given flowchart related to the defence mechanism of the body.



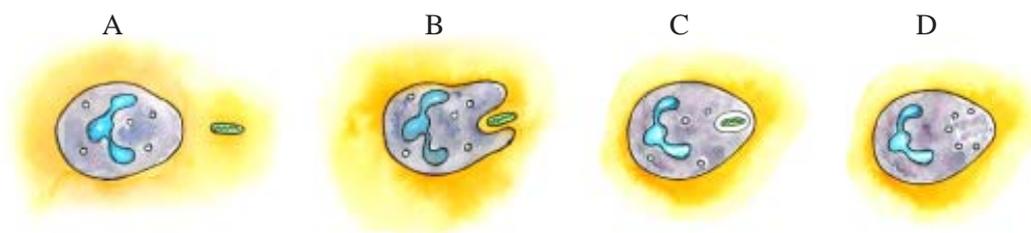
- Complete the flowchart?
- What is this reaction called?

Time - 3 min

Score - 3

Qn : 6 : 17

Observe the given pictures.



- To which activity is this related?
- Analyse the pictures and prepare suitable observation notes.

Time - 3 min

Score - 3

Qn : 6 : 18

School admission prohibited to students affected with AIDS

Observe the news and answer the given questions.

- Is AIDS a contagious disease? Why?
 - What is your response to the attitude of the school authorities? Give justification?

Time - 3 min

Score - 4

Qn : 6 : 19

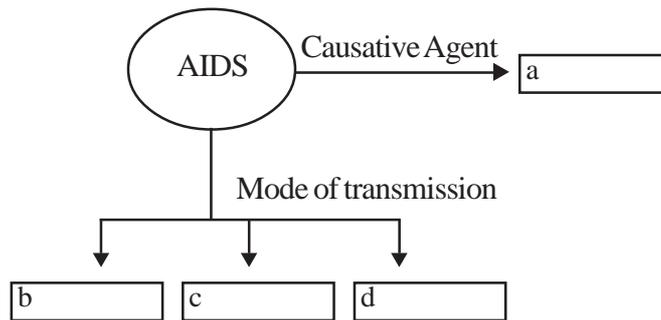
Given below are two methods which can be used against diseases.

- a) Antibiotics
- (b) Vaccines
- i) What is the major difference between the two?
- ii) Give one example of each
- iii) Prepare two placards for the awareness activities for these two methods.

Time - 2 min
Score - 3

Qn : 6 : 20

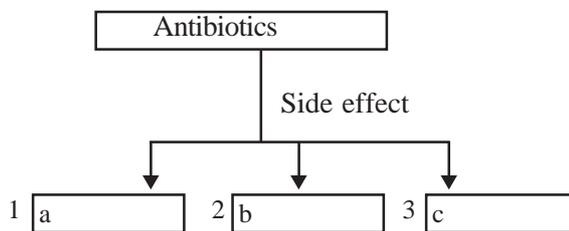
Fill up according to indications



Time - 3 min
Score - 4

Qn : 6 : 21

Fill up according to indications



Time - 3 min
Score - 3

Qn : 6 : 22

Find out companions :

Polio, Cirrhosis, Tetanus, DPT, MMR, OVP, Tuberculosis, Mumps, BCG, Hepatitis & Vaccines, Pencillin

- Polio - OPV
-
-
-
-

Time - 4 min
Score - 4 **5**

.Qn : 6 : 23

Given below is the table about the antigen and antibody of each blood group. Fill the gap?

Blood group	Antigen	Antibody
A (1)	Anti - b
B	B (2)
..... (3)(4)	Nil
..... (5)	Nil (6)

Time - 2 min
Score - 3

Qn :6 : 24

The symptoms of three patients are given. Identify the disease and specify the medical section or department which has to be approached for its treatment.

Anil: Age - 25

Turbid and dark urine, back pain, fever, swelling of the face, ankle and feet.

Soumya: Age - 52

Power of vision is gradually lost due to lens becoming opaque

John: Age - 18

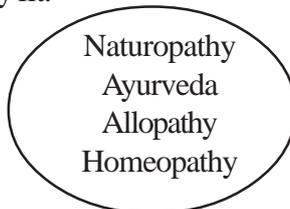
Fits due to frequent uncontrolled muscular contractions, unconsciousness, frothy discharge from the mouth

Time - 3 min
Score - 3

Qn : 6 : 25

Based on the statement, find the mode of treatment from the box and write down.

- a) The causative factor of the disease itself can effect cure.
- b) The mode of treatment which gives importance to diagnosis, treatment and medicines.
- c) A life style to maintain the body fit.



Time - 2 min
Score - 3

Qn : 6 : 26

Complete the table suitably

Defence mechanism	Organ
A. Wax - like substance having germicidal effect	A
B.	B Stomach
C. The fluid that moistens and frequently washes this organs contains a germicide called lysosyme.	C
D.	D Skin

6

Time - 2 min
Score - 4

Qn :6 : 27

Arrange the facts in B & C according to A.

A	B	C
1. Ophthalmology	a Treatment of the heart	i Radiation
2. Urology	b Treatment of the eye	ii Dialysis
3. Cardiology	c Treatment of cancer	iii Bypass surgery
	d Treatment of infections of the urinary tract.	iv Keratoplasty

Time - 2 min

Score - 3

Qn :6 : 28

The following is a line from a Science Magazine prepared by Lekha on the modern technologies used in diagnosis and treatment.

“This is the technology used to effect alteration in the genetic structure of an organism as we desire”

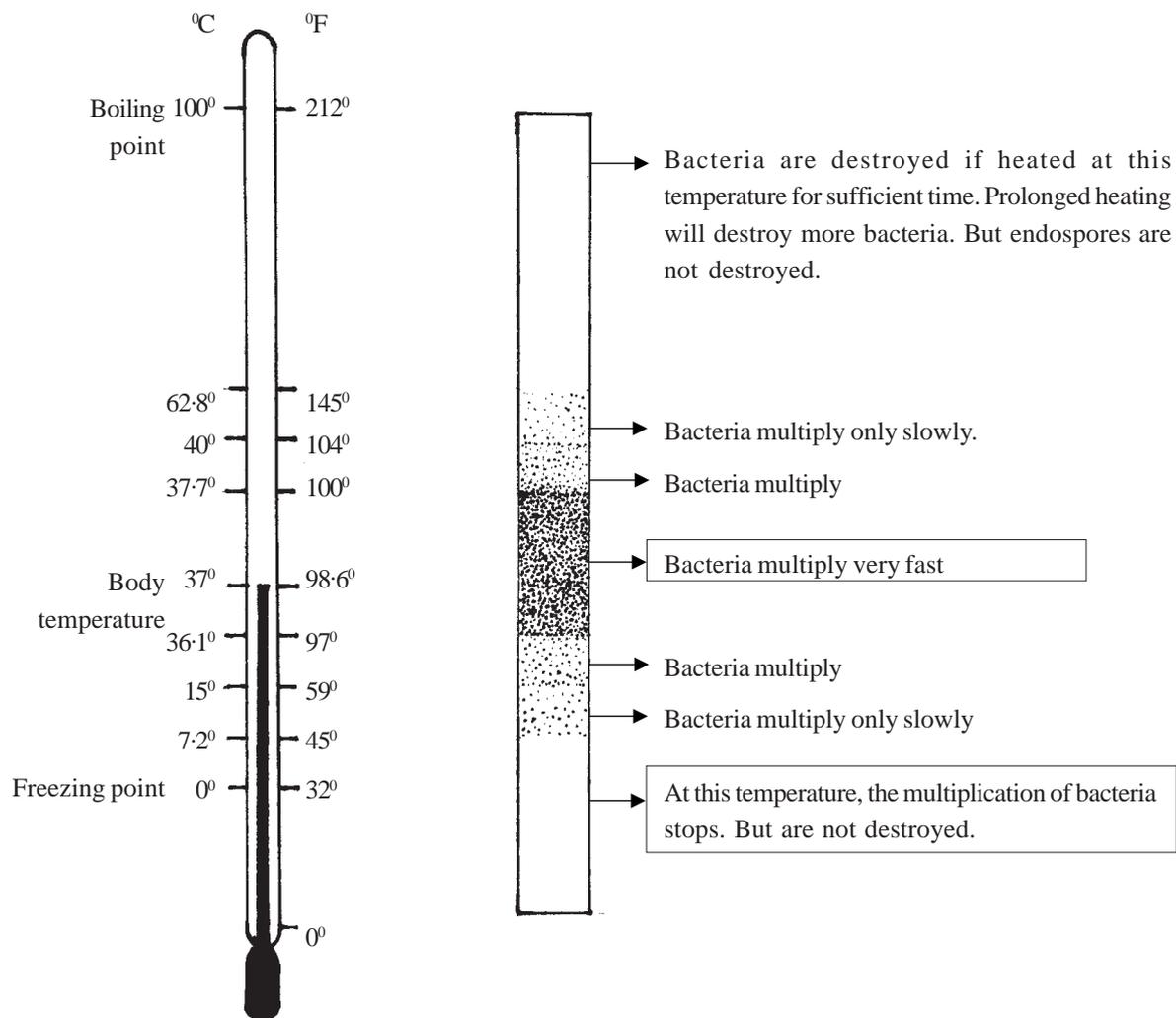
- Which is the technology referred here?
- What are the organisms with altered genetic make up called?
- Note down advantages and disadvantages (2 each) of this technique.

Time - 2 min

Score - 3

Qn : 6 : 29

Observe the illustration and answer the questions given below.



- Illustrate the variation in temperature and multiplication of bacteria in the form of a graph.
- What may be the reason for the food kept in the refrigerator not getting denatured? Time - 3 min
Score - 3

Qn : 6 : 30

The data from a survey conducted among long term users of antibiotics is given in the table.

No. of Users	On consultation	Without consulting	Those who suffered side-effects	Having knowledge about side-effects
78	52	26	15	35

- Analyse the table and form 2 inferences
- Place 2 suggestions based on inferences
- Write any 3 antibiotics and their side effects
Time - 3 min
Score - 4

Qn : 6 : 31

Firoz – Age 20 : Blood group: A+ve
Jacob – Age 16 : Blood group: B+ve

- Tabulate the antigen and antibodies in the blood of both.
- Is it possible for Jacob to donate blood to Feroz? Why?
Time - 3 min
Score - 3

Qn : 6 : 32

“During the last year it was possible to start 3 hospitals with all modern facilities in our city which played a crucial role in solving the health problems of our city”

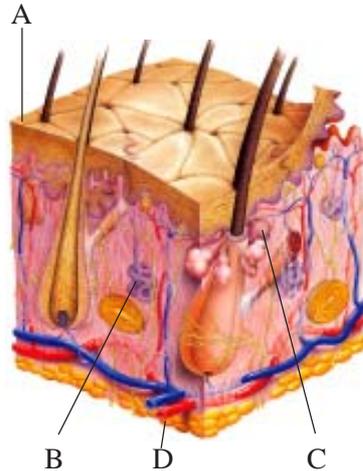
Given above is an excerpt from the annual report of a municipality.

- a) Is the higher number of hospitals an indicator of development?
- b) Will the health problems of the city be solved? Why?
- c) What suggestions will you place for solving the problem?

Time - 3 min

Score - 3

Qn : 6 : 33



- a) What are A, B, C, D?
- b) What is the importance of A?
- c) Evaluate how the synthetic methods meant for increasing facial beauty affect the health of the skin.

Time - 3 min

Score - 3

Qn : 6 : 34

Raju who was under treatment for typhoid had some digestive problems when he took antibiotics.

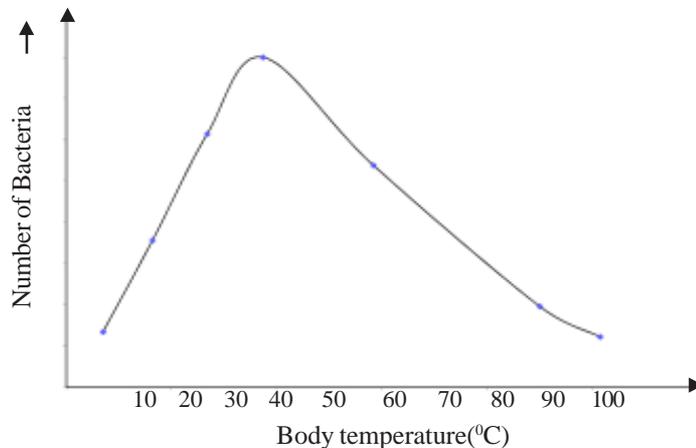
- a) What may be the reason for this?
- b) What other health problems may arise due to antibiotics?

Time - 3 min

Score - 3

Qn : 6 : 35

Observe the graph illustrating the rate of multiplication of bacteria?



- a) What does the graph indicate?
- b) Normally under which circumstances does body temperature rise?
- c) "It is advisable to drink boiled water." Justify this on the basis of the graph.

Time - 3 min

Score - 3