Class- 4

BIOLOGY

UPSC -2023

Consider the following statements:

- 1. Some microorganisms can grow in environments with temperature above
- 2. Some microorganisms can grow in environments with temperature below the freezing point of water.

 3. Some microorganisms can grow in highly acidic environment with a pH below 3.

 How many of the above statements are expressed.

How many of the above statements are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

Fungal diseases

- Candidiasis
- Ringworm
- Athlete's foot

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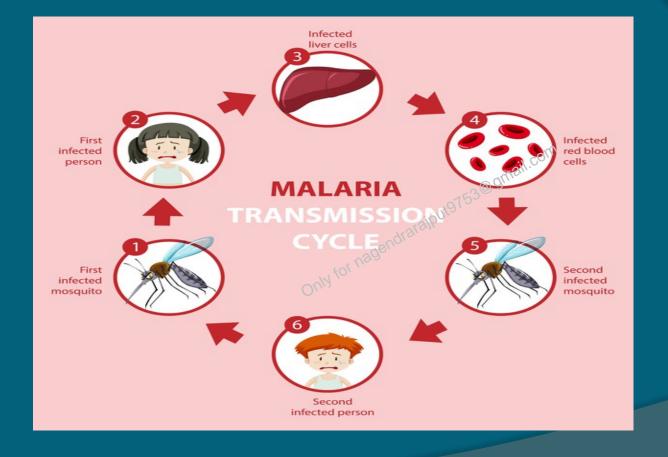
Helminthic diseases

- Ascariasis
- Ampnatic filariasis
 Hookworm infection for nagendrarainum and province of the company to the the com

Protozoan Disease

- Amoebiasis
- Giardiasis
- Malaria

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Viral diseases

- Hepatitis
- Chicken pox
- Polio
- Dengue
- Zika
- Chikungunya
- AIDS



Which of the following statements is / are correct?

- Viruses lack enzymes necessary for the generation of energy.
 Viruses can be cultured in any synthetic medium
- 3. Viruses are transmitted from one organism to another by biological vectors only.

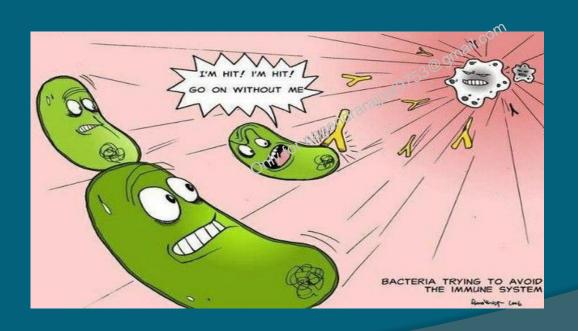
 Select the correct answer using the codes given below.

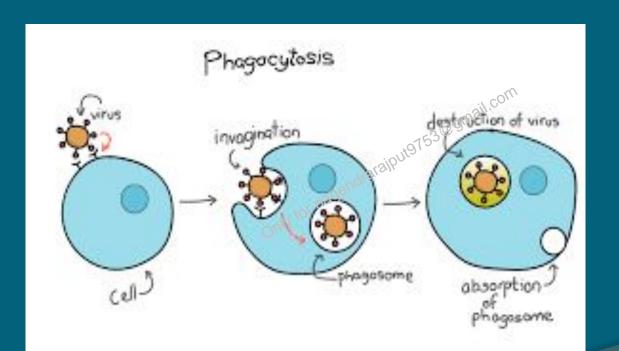
- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Immunity



Antigen- Antibody





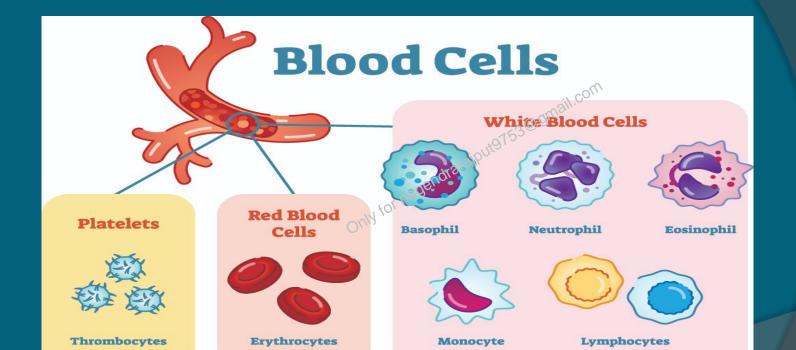
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Widespread resistance of malarial parasite to drugs like chloroquine has prompted attempts to develop a malarial vaccine to combat malaria. Why is it difficult to develop an effective malaria vaccine?

(a) Malaria is caused by several species of Plasmodium

(b) Man does not develop, immunity to malaria during

- natural infection
- (c) Vaccines can be developed only against bacteria
- (d) Man is only an intermediate host and not the definitive host



Blood groups

	Group A	Group B	Group AB	્રા _ુ ં Group O
Red blood cell type			ndrz zajputo 163@ griti	
Antibodies in Plasma	Anti-B	Anti-A	None	Anti-B and Anti-A
Antigens in Red Blood Cell	₹ A antigen	T B antigen	A and B antigens	None © Buzzle.com

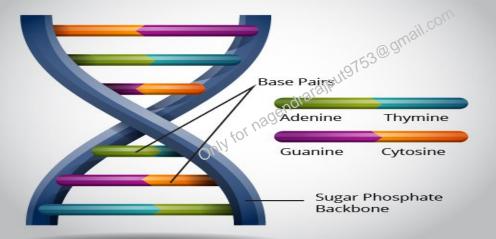
A man whose blood group is not known meets with a serious accident and needs blood transfusion immediately. Which one of the blood groups mentioned below and readily available in the hospital will be safe for transfusion?

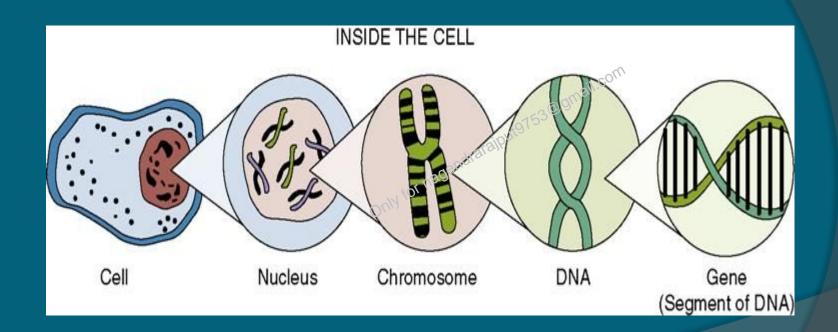
a) O, Rh—

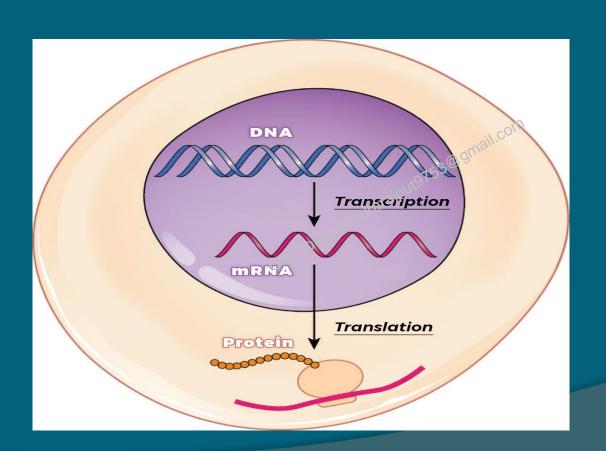
- O, Rh-
- O, Rh+
- (c) AB, Rh-
- (d) AB, Rh+

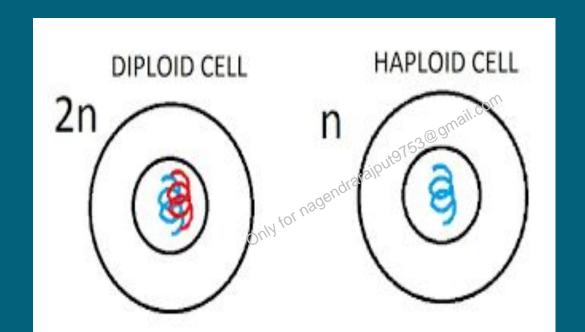
	DNA	RNA
Shape	Double helix (like a twisted ladder)	Single stranded
Nitrogen bases used	Adenine Guanine Cytosine Thymine	Adenine Guanine Cytosine Uracil
Type of sugar used	Deoxyribose	Ribose

DNA Structure









Homologous Chromosomes

