

# Biology

Class- 4

- Which of the following statements is not correct?
- (a) Hepatitis B virus is transmitted much like HIV.
  - (b) Hepatitis B, unlike Hepatitis C, does not have a vaccine.
  - (c) Globally, the number of people infected with Hepatitis B and C viruses are several times more than those infected with HIV.
  - (d) Some of those infected with Hepatitis B and C viruses do not show the symptoms for many years.

# Immunity

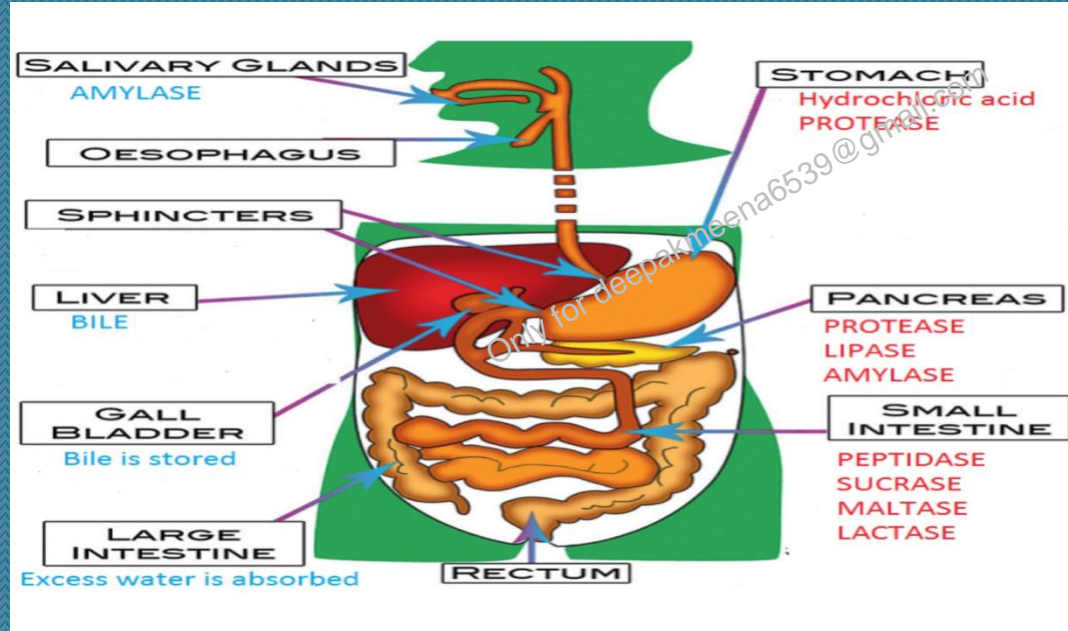




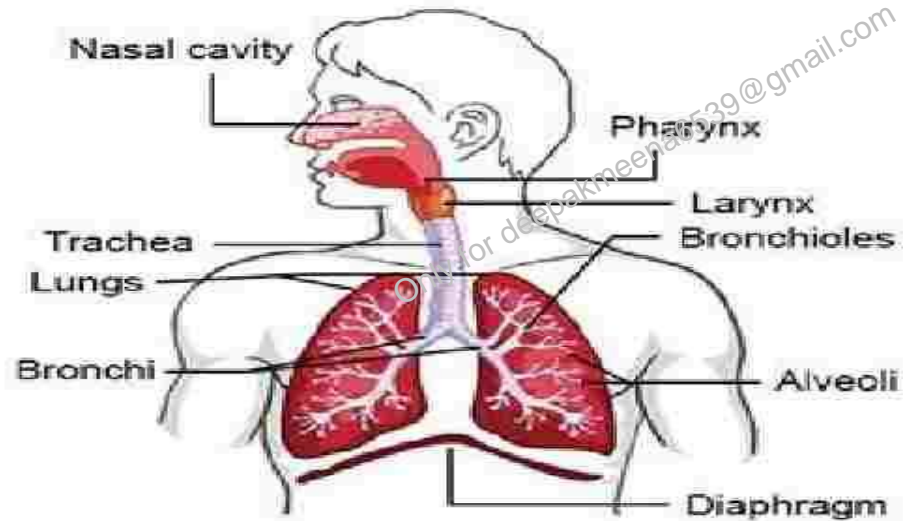
Widespread resistance of malarial parasite to drugs like chloroquine has prompted attempts to develop a malarial vaccine to combat malaria. Why is it difficult to develop an effective malaria vaccine ?

- (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

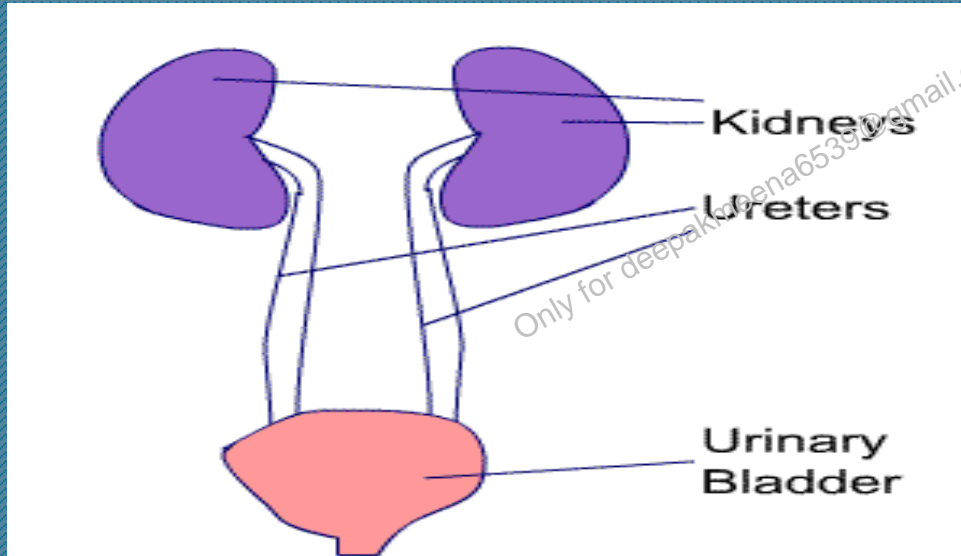
# Digestive System



# Respiratory System

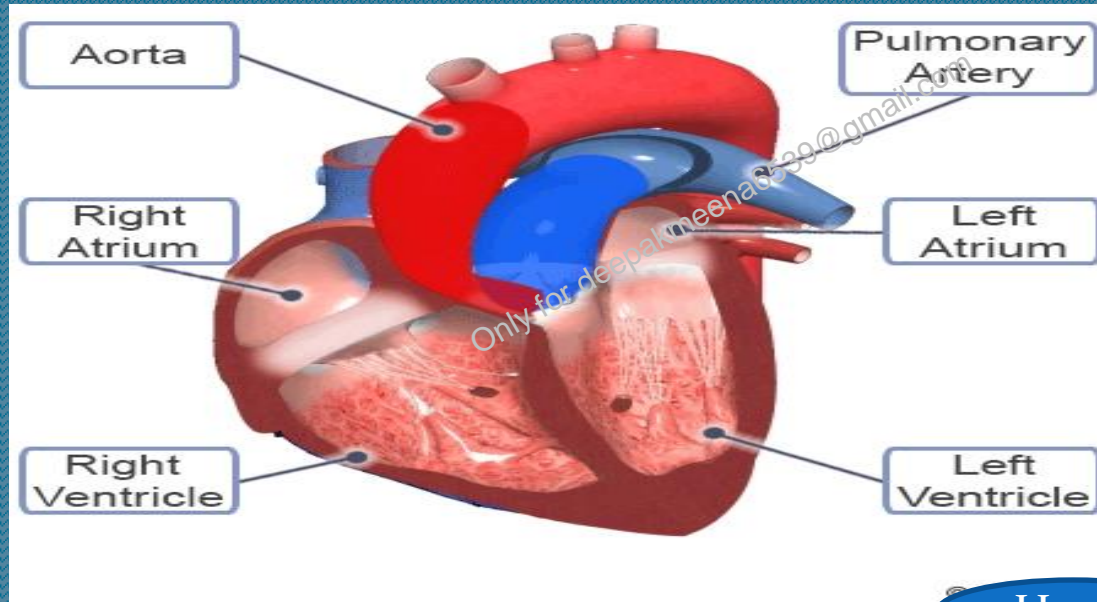


# Excretory System



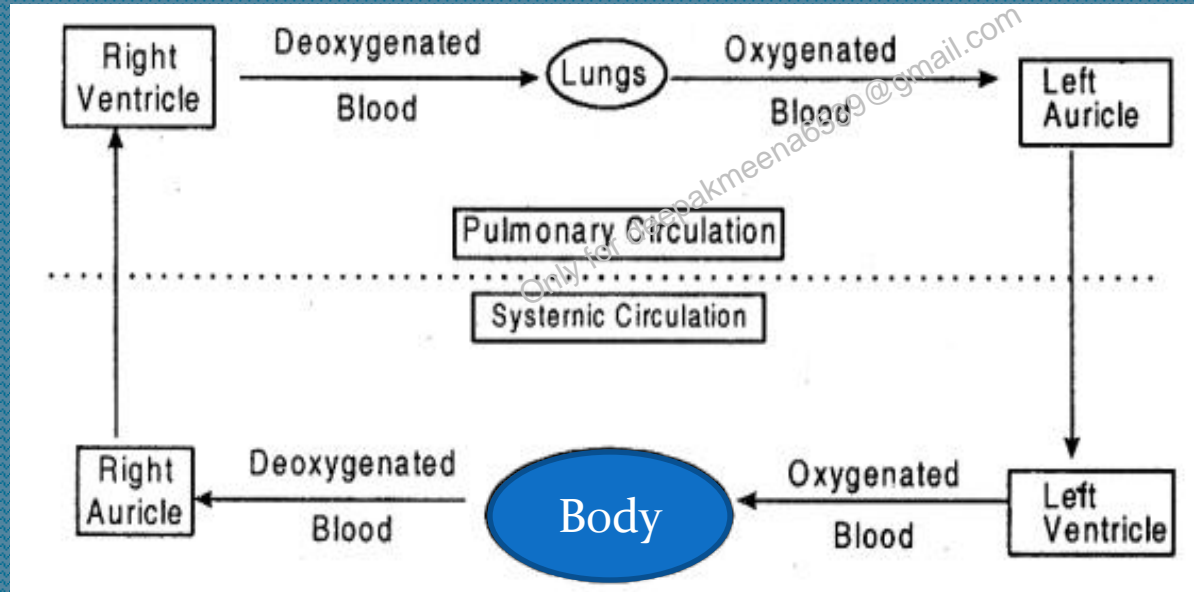


# The Circulatory System

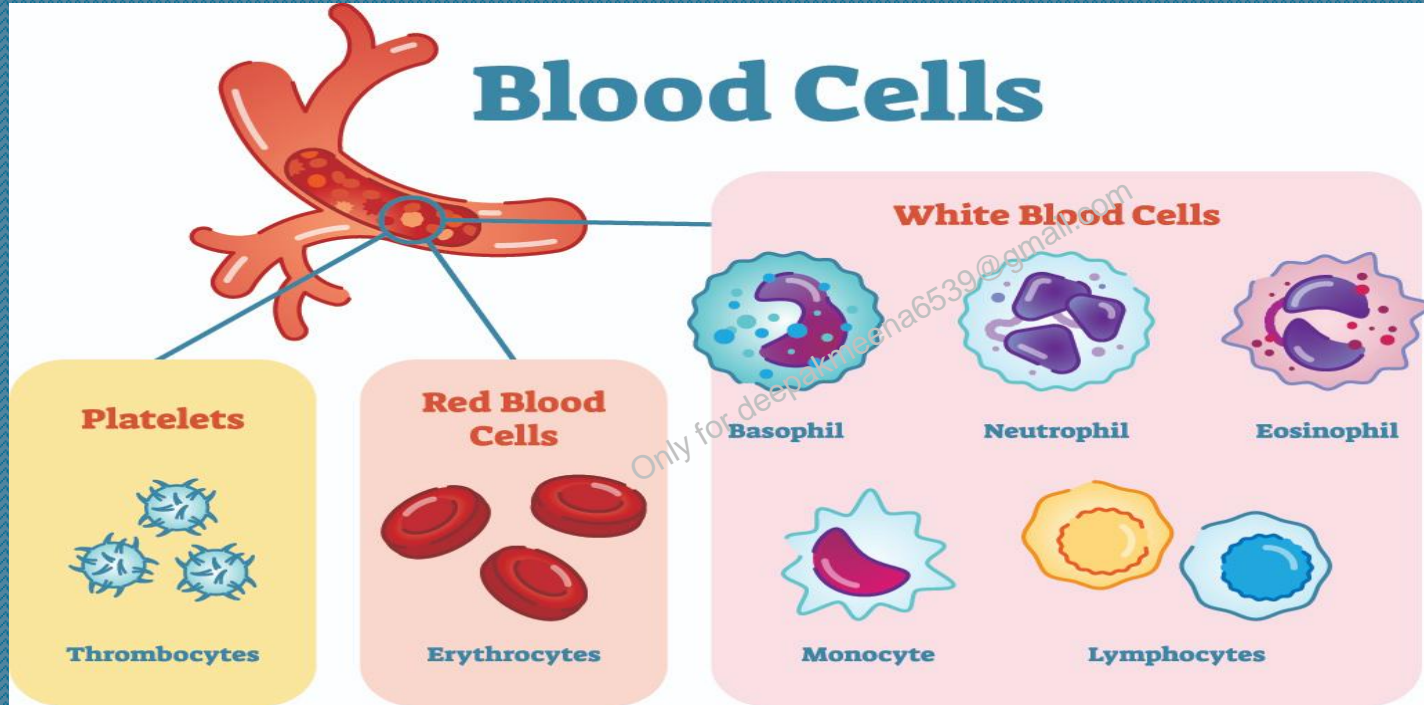


Heart

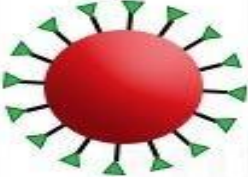
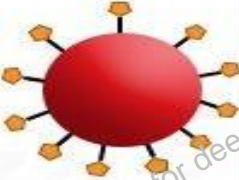

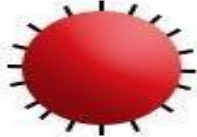






# Double circulation in Heart



# Blood Cells



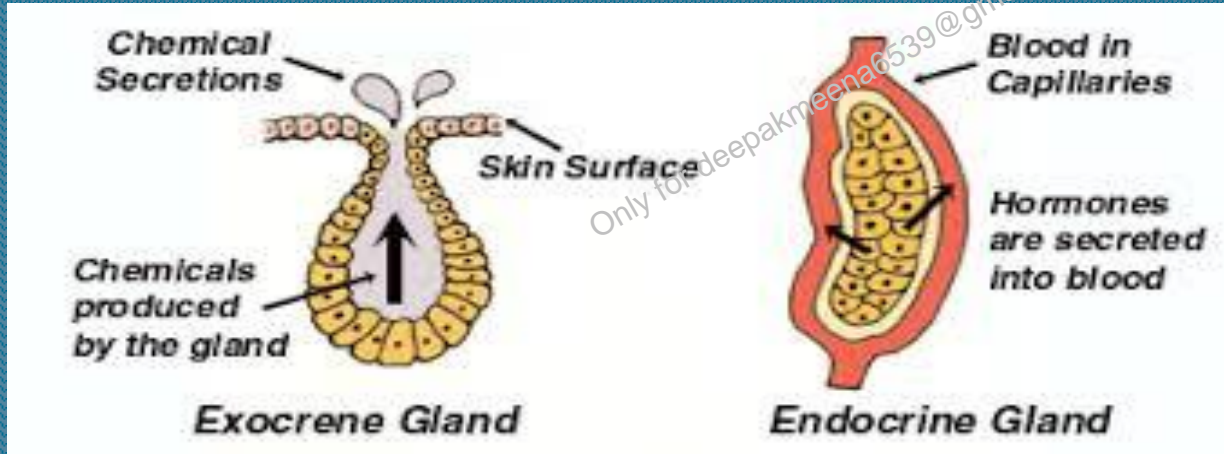
# Blood groups

	Group A	Group B	Group AB	Group O
Red blood cell type				
Antibodies in Plasma	 Anti-B	 Anti-A	None	 Anti-B and Anti-A
Antigens in Red Blood Cell	 A antigen	 B antigen	 A and B antigens	None

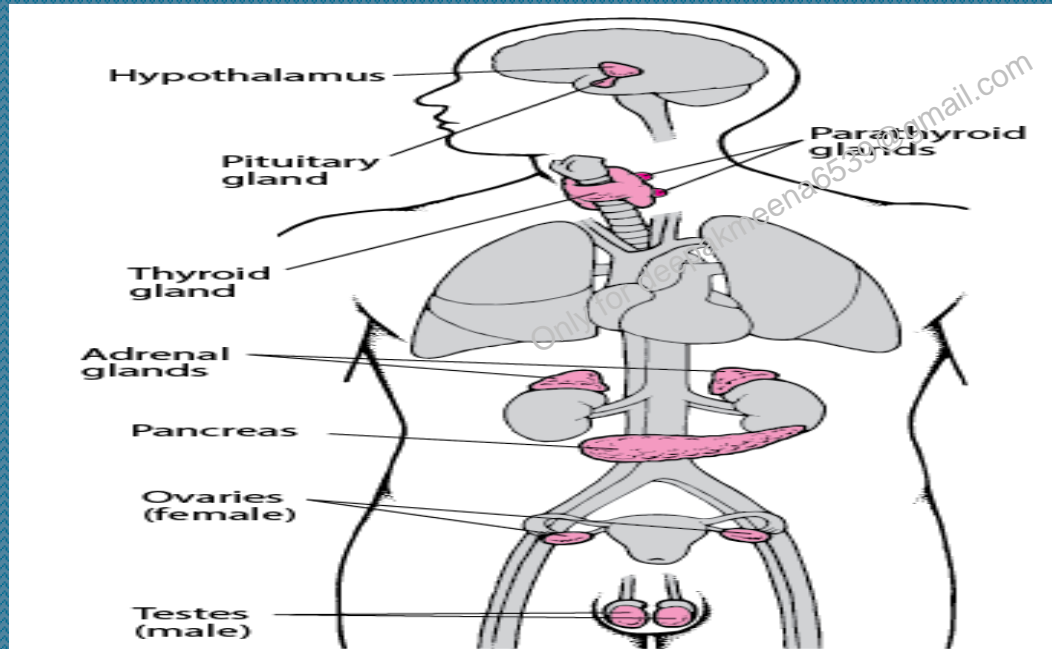
A man whose blood group is not known meets with a serious accident and needs blood transfusion immediately. Which one of the blood groups mentioned below and readily available in the hospital will be safe for transfusion?

- (a) O, Rh–
- (b) O, Rh+
- (c) AB, Rh–
- (d) AB, Rh+

# Glands



# Endocrine Glands



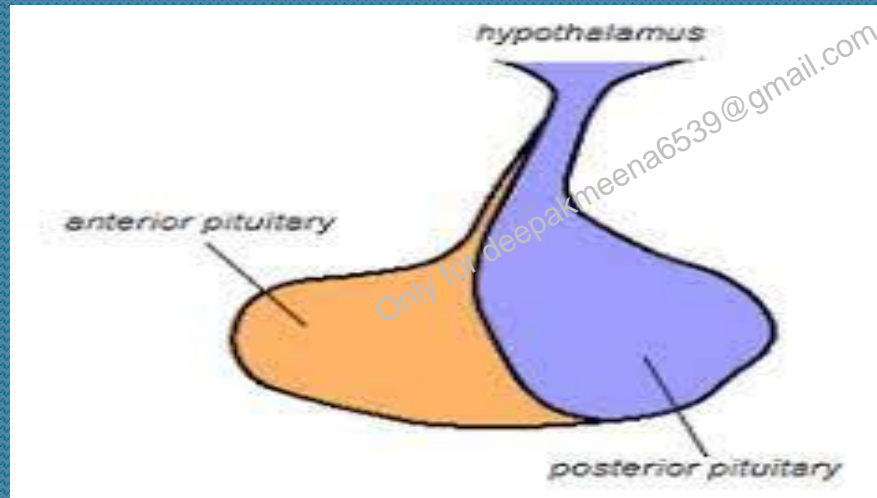
# Hypothalamus

- Releasing Hormone
- Inhibiting Hormone

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# PITUITARY GLAND



# ANTERIOR PITUITARY

- Thyroid stimulating Hormone (TSH)
- Prolactin
- Adrenocorticotrophic hormone (ACTH)
- Follicle-stimulating hormone (FSH).
- Growth hormone (GH)
- Luteinizing hormone (LH)

# Posterior Pituitary

- Antidiuretic hormone (ADH, or vasopressin).
- Oxytocin.

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## Thyroid gland

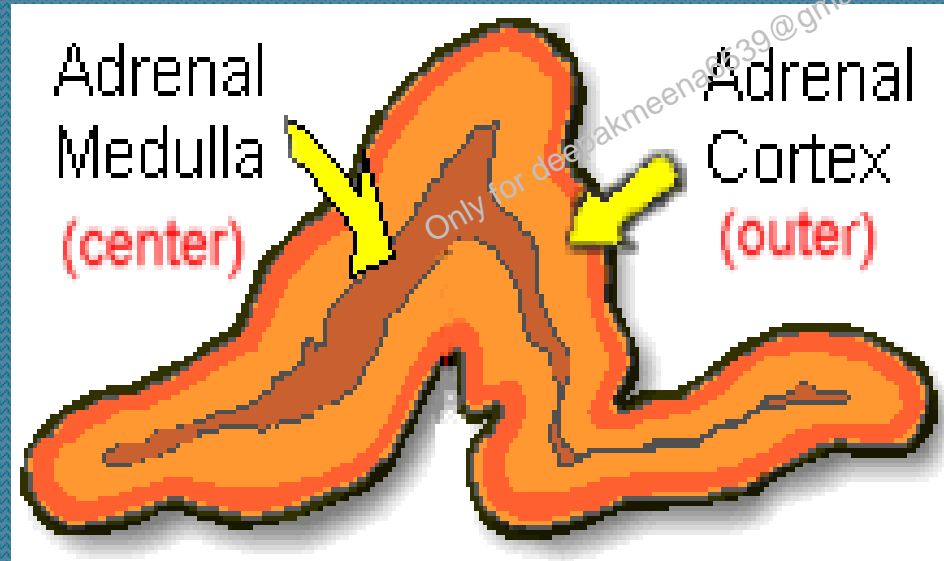
- Thyroid hormone or Thyroxine

## Parathyroid gland

- Parathyroid hormone

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# Adrenal gland



## Adrenal Medulla

- Adrenaline
- Noradrenaline

## Adrenal Cortex

- Mineralocorticoids
- Glucocorticoids

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# Pancreas

- Insulin
- Glucagon

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The pituitary gland by virtue of its tropic hormones controls the secretory activity of other endocrine glands. Which one of the following endocrine glands can function independent of the pituitary gland ?

- (a) Thyroid
- (b) Gonads
- (c) Adrenals
- (d) Parathyroid

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