



KINETICS

We Nurture The Future

IIT-JEE | Medical | Foundations

Transportation in Animals and Plants

Question 1.

Water absorption through roots can be increased by keeping the plants:

- (a) in the shade
- (b) in dim light
- (c) under the fan
- (d) covered with a polythene bag

▼ [Answer](#)

(c) under the fan

Water absorption through roots can be increased by keeping under the fan.

Question 2.

The process by which a plant loses water through the stomata is called:

- (a) excretion
- (b) transpiration
- (c) respiration
- (d) sweating

▼ [Answer](#)

(b) transpiration

The process by which a plant loses water through the stomata is called transpiration.

Question 3.

Urea is a waste produced in the process of the breaking down of:

- (a) proteins
- (b) carbohydrates
- (c) fats
- (d) sugar

▼ [Answer](#)

(a) proteins

Urea is a waste product in the process of breaking down proteins.

Question 4.

The thinnest blood vessels in the human body are:

- (a) arteries
- (b) capillaries
- (c) veins
- (d) any of these

▼ [Answer](#)

(b) capillaries

Capillaries are the thinnest blood vessels.

Question 5.

Blood platelets are responsible for:

- (a) haemoglobin
- (b) red blood cells
- (c) white blood cells
- (d) blood clotting

▼ [Answer](#)

- (d) blood clotting

Blood platelets are responsible for blood clotting.

Question 6.

During transpiration water is lost from the plant in the form of:

- (a) water vapour
- (b) liquid
- (c) hydrogen and oxygen gas
- (d) steam

▼ [Answer](#)

- (a) water vapour

Water is lost from the plant in the form of water vapour during transpiration.

Question 7.

Blood cells that protect the body from disease are:

- (a) RBCs
- (b) WBCs
- (c) blood platelets
- (d) all of these

▼ [Answer](#)

- (b) WBCs

WBCs protect us from diseases.

Question 8.

The device used to hear the heart beat is called a:

- (a) thermometer
- (b) stethoscope
- (c) sphygmomanometer
- (d) microscope

▼ [Answer](#)

- (b) stethoscope

Stethoscope is used to the heart beat.

Question 9.

In the human urinary system, which of these in your opinion is the most important organ?

- (a) kidney
- (b) ureters
- (c) urinary bladder
- (d) urethra

▼ [Answer](#)

- (a) kidney

Kidney is the most important organ in human urinary system.

Question 10.

Which of the following are the tiny filtering units of the kidney?

- (a) ureters
- (b) bladder
- (c) nephrons
- (d) urethra

▼ [Answer](#)

- (c) nephrons

Nephrons are tiny filtering units of kidney.

Question 11.

The average of adult blood pressure is:

- (a) 110/90
- (b) 110/80
- (c) 120/110
- (d) 120/80

▼ [Answer](#)

- (d) 120/80

The average of adult blood pressure is 120/80

Question 12.

Water is absorbed by the roots from the soil by a process is:

- (a) translocation
- (b) osmosis
- (c) transpiration
- (d) none of these

▼ [Answer](#)

- (b) osmosis

Water is absorbed by the roots from the soil is osmosis.

Question 13.

The fluid part of the blood is:

- (a) cells
- (b) veins
- (c) plasma
- (d) tissue

▼ [Answer](#)

- (c) plasma

The fluid part of blood is plasma.

Question 14.

A liquid which carries digested food to various parts of our body is:

- (a) pulse rate
- (b) RBCs
- (c) WBCs
- (d) blood

▼ [Answer](#)

- (d) blood

Blood is a liquid which carries digested food to various part of the body.

Question 15.

Transportation of materials in human body is conducted by:

- (a) digestive system
- (b) excretory system
- (c) circulatory system
- (d) none of these

▼ [Answer](#)

- (c) circulatory system

Transportation of materials in human body is conducted by excretory system.

Question 16.

The vascular tissue for that transports the food synthesised by the leaves to all parts of the plant is:

- (a) Phloem
- (b) xylem
- (c) stomata
- (d) root hairs

▼ [Answer](#)

- (a) Phloem

Food is carried from the leaves by pipes formed by phloem tissue.

Question 17.

Small pores in leaves of plants are called:

- (a) stomata

- (b) xylem
- (c) Phloem
- (d) root hairs

▼ [Answer](#)

(a) stomata
Small pores in leaves of plants are stomata.

Question 18.
Any two substances that are transported by blood:

- (a) water, air
- (b) water and oxygen
- (c) oxygen, food
- (d) none of these

▼ [Answer](#)

(c) oxygen, food
Oxygen and food are two substances that are transported by blood.

Question 19.
Right side of heart has blood rich in:

- (a) carbon dioxide
- (b) oxygen
- (c) haemoglobin
- (d) can't say

▼ [Answer](#)

(a) carbon dioxide
Right side of heart has blood rich in carbon dioxide.

Question 20.
Left side of heart has blood rich in:

- (a) carbon dioxide
- (b) oxygen
- (c) haemoglobin
- (d) none of these

▼ [Answer](#)

(b) oxygen
Left side of heart has blood rich in oxygen.

Question 21.
Sea fishes excrete salt through their:

- (a) lungs
- (b) wings

- (c) gills
- (d) stomata

▼ [Answer](#)

(c) gills
Sea fishes excrete salt through their gills.

Question 22.
Insects excrete uric acid in form of:

- (a) liquid
- (b) gases
- (c) both a and b
- (d) solids

▼ [Answer](#)

(d) solids
Insects excrete uric acid in form of solids.

Question 23.
How much urine is passed in 24 hours by adult human being?

- (a) 1-1.81 of urine
- (b) 1-1.41 of urine
- (c) 1-1.61 of urine
- (d) 1-1.71 of urine

▼ [Answer](#)

(a) 1-1.81 of urine
1-1.81 of urine is passed in 24 hours by adult human being.

Question 24.
An average person has a pulse rate:

- (a) less than 75 per minute
- (b) more than 75 per minute
- (c) between 70-75 per minute
- (d) none of these

▼ [Answer](#)

(c) between 70-75 per minute
An average person has between 70-75 per minute pulse rate.

Question 25.
The flow of blood is fastest in:

- (a) arteries
- (b) capillaries
- (c) veins
- (d) none of these

▼ [Answer](#)

(a) arteries

The flow of blood is fastest in arteries.

Question 26.

The wall of which of the following is thick and elastic:

(a) arteries

(b) veins

(c) capillaries

(d) none of these

▼ [Answer](#)

(a) arteries

The wall of arteries is thick and elastic.

Question 27.

The blood of which of the following is rich in carbon dioxide:

(a) arteries

(b) veins

(c) capillaries

(d) none of these

▼ [Answer](#)

(b) veins

The blood of veins is rich in carbon dioxide.

Question 28.

Through walls of which of the following many substances can be exchanged:

(a) arteries

(b) veins

(c) capillaries

(d) none of these

▼ [Answer](#)

(c) capillaries

Through walls of capillaries many substances can be exchanged.

Question 29.

Vessels having thin walls are:

(a) arteries

(b) veins

(c) capillaries

(d) none of these

▼ [Answer](#)

(b) veins

Vessels having thick walls are veins.

Question 30.

Haemoglobin contains:

- (a) Iron
- (b) Iodine
- (c) Calcium
- (d) none of these

▼ [Answer](#)

(a) Iron

Haemoglobin contains iron.

Question 31.

The cells helping in clotting of blood are:

- (a) white blood cells
- (b) red blood cells
- (c) blood platelets
- (d) none of these

▼ [Answer](#)

(c) blood platelets

The cells helping in clotting are blood platelets.

Question 32.

The main excretory product in human beings is:

- (a) uric acid
- (b) ammonia
- (c) urea
- (d) water

▼ [Answer](#)

(c) urea

Urea is main excretory product in human beings.

Question 33.

The droppings of birds are:

- (a) black
- (b) white
- (c) green
- (d) white and deep green

▼ [Answer](#)

(d) white and deep green

The dropping of birds are white and deep green.

Question 34.

Which of the following dissolves in water to form urine:

- (a) nitrogen
- (b) urea
- (c) ammonia
- (d) uric acid

▼ [Answer](#)

- (b) urea

Urea dissolved in water to form urine.

Question 35.

The white colour of bird droppings is due to:

- (a) urea
- (b) uric acid
- (c) food eaten by birds
- (d) none of these

▼ [Answer](#)

- (b) uric acid

The white colour of bird droppings is due to uric acid.

Question 36.

Fishes excrete nitrogen in the form of:

- (a) uric acid
- (b) ammonia
- (c) urea
- (d) none of these

▼ [Answer](#)

- (b) ammonia

Fishes excrete nitrogen in the form of ammonia.

Question 37.

Land animals excrete urea in the form of:

- (a) urine
- (b) solids
- (c) both a and b
- (d) none of these

▼ [Answer](#)

- (a) urine

Land animals excrete urea in form of urine.

Question 38.

The waste products of blood are excrete by:

- (a) kidney
- (b) lungs
- (c) liver
- (d) heart

▼ [Answer](#)

- (a) kidney

The waste products of blood are excrete by kidney.

Question 39.

In plants, water is transported through:

- (a) xylem
- (b) phloem
- (c) stomata
- (d) root hair

▼ [Answer](#)

- (a) xylem

In plants water is transported through xylem.

[Match the column A with column B:](#)

Question 1.

Column-A	Column-B
(a) Stomata	(i) Transpiration.
(b) Xylem	(ii) Transport of food
(c) Root hairs	(iii) Transport of water.
(d) Phloem	(iv) Absorption of water.

▼ [Answer](#)

Column-A	Column-B
(a) Stomata	(i) Transpiration.
(b) Xylem	(iii) Transport of water.
(c) Root hairs	(iv) Absorption of water.
(d) Phloem	(ii) Transport of food

Question 2.

Column-A	Column-B
(a) Pulse rate	(i) Look like discs

(b) White blood cells	(ii) Help in clotting blood
(c) Red blood cells	(iii) Help fight infections
(d) Platelets	(iv) Between 70-75 per minute

▼ Answer

Column-A	Column-B
(a) Pulse rate	(iv) Between 70-75 per minute
(b) White blood cells	(iii) Help fight infections
(c) Red blood cells	(i) Look like discs
(d) Platelets	(ii) Help in clotting blood

Question 3.

Column-A	Column-B
(a) Plasma	(i) Protein that helps transport oxygen.
(b) Arteries	(ii) Carry blood to the heart.
(c) Veins	(iii) The liquid part of the body.
(d) Haemoglobin	(iv) Carry blood away from heart.

▼ Answer

Column-A	Column-B
(a) Plasma	(iii) The liquid part of the body.
(b) Arteries	(iv) Carry blood away from heart.
(c) Veins	(ii) Carry blood to the heart.
(d) Haemoglobin	(i) Protein that helps transport oxygen.

State the following statements are True or False:

Question 1.

An average person has a pulse rate between 70-75 per minute.

▼ Answer

True

Question 2.

The flow of blood is faster in veins.

▼ [Answer](#)

False

Question 3.

The wall of arteries is thick and elastic.

▼ [Answer](#)

True

Question 4.

The blood of capillaries is rich in carbon dioxide.

▼ [Answer](#)

False

Question 5.

Through walls of capillaries many substance can be exchanged.

▼ [Answer](#)

True

Question 6.

The vessels having thin walls are arteries.

▼ [Answer](#)

False

Question 7.

Haemoglobin contains Iodine.

▼ [Answer](#)

False

Question 8.

The cells helping in clotting of blood are Red blood cells.

▼ [Answer](#)

False

Question 9.

The waste products are excreted by liver.

▼ [Answer](#)

False

Question 10.

Land animals excrete nitrogen urea in the form of solids.

▼ [Answer](#)

True

Question 11.

Sea animal excrete urea in the form of ammonia.

▼ [Answer](#)

False

Question 12.

Urea is the main excretory product in human beings.

▼ [Answer](#)

True

Question 13.

The white colour of bird dropping is due to food eaten by birds.

▼ [Answer](#)

False

Question 14.

Urea dissolves in water to form urine.

▼ [Answer](#)

True

Question 15.

The droppings of birds are white and deep green.

▼ [Answer](#)

True

Question 16.

Blood is the fluid which flows in blood vessels.

▼ [Answer](#)

True

Fill in the blanks:

Question 1.

The blood from the heart is transported to all parts of the body by the

▼ [Answer](#)

arteries

Question 2.

Haemoglobin is present in cells.

▼ [Answer](#)

red blood

Question 3.

Arteries and veins are joined by a network of

▼ [Answer](#)

capillaries

Question 4.

The rhythmic expansion and contraction of the heart is called

▼ [Answer](#)

heart beat

Question 5.

The main excretory product in human beings is

▼ [Answer](#)

urea

Question 6.

Sweat contains water and

▼ [Answer](#)

urea and salt

Question 7.

Kidneys eliminate the waste materials in liquid form called

▼ [Answer](#)

urine

Question 8.

Water reaches great heights in trees because of suction pull caused by

▼ [Answer](#)

transpiration

Question 9.

Food is carried from the leaves by pipe formed by

▼ [Answer](#)

phloem

Question 10.

The solution of water and minerals that moves upwards from the root is called

▼ [Answer](#)

sap

Question 11.

The contraction and relaxation of the heart is called

▼ [Answer](#)

heart beat

Question 12.

A membrane which allows some substances to pass through but not other is called

▼ [Answer](#)

semipermeable membrane

Question 13.

Stomata are present mostly on the surface of leaves.

▼ [Answer](#)

lower

Question 14.

Each side of the heart is divided into an upper chamber called and lower chamber called

▼ [Answer](#)

auricles, ventricles

Question 15.

The a small tube through which urine is expelled.

▼ [Answer](#)

Urethra

Question 16.

..... help to keep us cool.

▼ [Answer](#)

Sweating
