

d) Glucose

Correct Answer: b) ATP

In cockroaches, food is temporarily stored in the:

a) Crop

b) Gizzard

c) Stomach

d) Intestine

Correct Answer: b) Gizzard

Birds have thin-walled ducts in their lungs called:

a) Bronchioles

b) Alveoli

c) Parabronchi

d) Tracheae

Correct Answer: c) Parabronchi

The percentage of CO₂ carried as bicarbonate in plasma is:

a) 50%

b) 60%

c) 70%

d) 80%

Correct Answer: c) 70%

Hydra is a:

Hydra is a:

- a) Filter Feeder
- b) Macrophagous Feeder
- c) Dimensions Feeder
- d) Parasitic Feeder

Correct Answer: b) Macrophagous Feeder

Active transport depends on:

- a) Osmosis
- b) Cellular Metabolism
- c) Diffusion
- d) Facilitated Transport

Correct Answer: b) Cellular Metabolism

The outer boundary of a cell is called the:

- a) Cell Wall
- b) Nuclear Membrane
- c) Plasma Membrane
- d) Capsule

d) Parasitic Feeder

Correct Answer: b) Macrophagous Feeder

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b) Nuclear Membrane

c) Plasma Membrane

d) Capsule

Correct Answer: c) Plasma Membrane

Lipids are:

- a) Soluble in water
- b) Insoluble in water
- c) Partially soluble
- d) None of these

Correct Answer: b) Insoluble in water

The maintenance of constant osmotic pressure in body fluids is called:

- a) Thermoregulation
- b) Osmoregulation
- c) Homeostasis
- d) Diffusion

Correct Answer: b) Osmoregulation

The ability to maintain body temperature despite environmental changes is:

- a) Osmoregulation
- b) Thermoregulation
- c) Hemostasis
- d) Glycoregulation

Correct Answer: b) Thermoregulation

Uric acid is the excretory product of:

- a) Carbohydrate metabolism
- b) Protein metabolism

c) During metabolism

Uric acid is the excretory product of:

- a) Carbohydrate metabolism
- b) Protein metabolism
- c) Purine metabolism
- d) Lipid metabolism

Correct Answer: c) Purine metabolism

An example of a heterogeneous mixture is:

- a) Saltwater
- b) Pizza
- c) Sugar solution
- d) Air

Correct Answer: b) Pizza

Steroids belong to which class of biomolecules?

- a) Carbohydrates
- b) Proteins
- c) Lipids
- d) Nucleic acids

Correct Answer: c) Lipids

A hypertonic solution has a:

- a) Lower solute concentration
- b) Higher solute concentration
- c) Equal solute concentration

A hypertonic solution has a:

- a) Lower solute concentration
- b) Higher solute concentration
- c) Equal solute concentration
- d) None of these

Correct Answer: b) Higher solute concentration

The primary function of the endoplasmic reticulum (ER) is:

- a) DNA replication
- b) Protein synthesis
- c) Lipid storage
- d) Waste elimination

Correct Answer: b) Protein synthesis

The organelle surrounded by a sac is called:

- a) Nucleus
- b) Cristae
- c) Ribosome
- d) Lysosome

Correct Answer: b) Cristae

Movement of particles from high to low concentration is:

- a) Osmosis
- b) Active transport

- b) Active transport
- c) Diffusion
- d) Filtration

Correct Answer: c) Diffusion

Enzymes used in digestion include:

- a) Protease and Amylase
- b) Lipase and Sucrase
- c) Lactase and Maltase
- d) All of these

Correct Answer: a) Protease and Amylase

The strongest chamber of the heart is the:

- a) Right atrium
- b) Left atrium
- c) Right ventricle
- d) Left ventricle

Correct Answer: d) Left ventricle

Kidneys receive approximately how much blood per cardiac beat?

- a) 0.5–1.0 L/min
- b) 1.2–1.3 L/min
- c) 2.0–2.5 L/min
- d) 3.0–3.5 L/min

Correct Answer: b) 1.2–1.3 L/min

d) 3.0–3.5 L/min

Correct Answer: b) 1.2–1.3 L/min

Collagen and parenchyma cells are found in:

a) Bones

b) Soft plant parts (leaves, flowers, fruits)

c) Blood vessels

d) Cartilage

Correct Answer: b) Soft plant parts (leaves, flowers, fruits)

Red blood cells appear red due to:

a) Myoglobin

b) Hemoglobin

c) Chlorophyll

d) Melanin

Correct Answer: b) Hemoglobin

Heat is produced during which process?

a) Photosynthesis

b) Respiration

c) Transpiration

d) Digestion

Correct Answer: b) Respiration

Amoeba moves using:

- a) Cilia
- b) Flagella
- c) Pseudopodia
- d) Tentacles

Correct Answer: c) Pseudopodia

Xerophytes contain which pigment?

- a) Xanthophyll
- b) Chlorophyll
- c) Carotene
- d) Phycobilin

Correct Answer: b) Chlorophyll

The functional unit of the kidney is the:

- a) Neuron
- b) Nephron
- c) Alveolus
- d) Sarcomere

Correct Answer: b) Nephron

Muscles contain:

- a) Hemoglobin
- b) Myoglobin
- c) Melanin
- d) Collagen

d) Collagen

Correct Answer: b) Myoglobin

The direct energy source for muscle contraction is:

a) Glucose

b) ATP

c) Creatine phosphate

d) Fatty acids

Correct Answer: b) ATP

Amino acids are linked by:

a) Glycosidic bonds

b) Peptide bonds

c) Hydrogen bonds

d) Ionic bonds

Correct Answer: b) Peptide bonds

Which of the following is NOT a lipid?

a) Cutin

b) Cholesterol

c) Phospholipid

d) Starch

Correct Answer: d) Starch

The normal pH of human blood is:

a) 6.8

b) 7.0

- b) Peptide bonds
- c) Hydrogen bonds
- d) Ionic bonds

Correct Answer: b) Peptide bonds

Which of the following is NOT a lipid?

- a) Cutin
- b) Cholesterol
- c) Phospholipid
- d) Starch

Correct Answer: d) Starch

The normal pH of human blood is:

- a) 6.8
- b) 7.0
- c) 7.4
- d) 8.0

Correct Answer: c) 7.4

Blastomeres are formed during:

- a) Fertilization
- b) Cleavage
- c) Gastrulation
- d) Organogenesis

Correct Answer: b) Cleavage