

PHYSIOLOGY OF PLANTS, HUMANS AND ANIMALS BASED GENERAL SCIENCE MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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Created By [Careericons](http://Careericons.com) Team

Q1. Cavity or lumen is narrow in

- a) Parenchyma
 - b) Sclerenchyma
 - c) Collenchyma
 - d) Tracheids
-

Q2. In which of the following reptiles four chambered heart is present ?

- a) Snake
 - b) Lizard
 - c) Scorpion
 - d) Crocodile
-

Q3. Bark includes

- a) tissues inside xylem
 - b) all the tissue outside vascular cambium
 - c) tissues inside the vascular cambium
 - d) all the dead tissues outside vascular cambium
-

Q4. Which of the followings organelles having single membrane bound structures ?

- Endoplasmic reticulum
- Golgi bodies
- Mitochondria
- Plastids

- a) 3 and 4
- b) 2 and 4
- c) 1 and 2
- d) 1, 2, 3 and 4

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Q5. Biological catalysts in living organisms are known as

- a) vitamins
- b) hormones
- c) steroids
- d) enzymes

Q6. The hormone reducing transpiration rate by inducing stomatal closure is

- a) ethylene
- b) cytokinin
- c) ABA
- d) auxin

Q7. Which of the following organs can be called as a sort of "blood bank" ?

- a) Heart
- b) Lungs
- c) Liver
- d) Spleen

Q8. The muscles in stomach are.

- a) involuntary
 - b) voluntary
 - c) Cardior
 - d) None of the above
-

Q9. The junction between an axon and dendrite is called

- a) synapse
 - b) cyton
 - c) relay
 - d) conduction zone
-

Q10. Which of the following is true of plants?

- a) Plants can create their own sugar using aerobic cellular respiration.
 - b) Plants can create their own sugars using photosynthesis.
 - c) Plants can create their own sugars using fermentation.
 - d) Plants can create their own sugar using anaerobic cellular respiration.
-

Q11. Match List-I with List-II and select the correct answer using the code given below the lists.

List-I	List-II
A. Ecotoxicology	1. Study of ductless gland
B. Hematology	2. Study about mollusks
C. Malacology	3. Study of blood
D. Endocrinology	4. Study of the effects of toxic chemical substance on animal and plant

Select the correct answer using the codes given below the lists: A B C D

- a) 2 1 4 3
- b) 4 3 2 1
- c) 3 2 1 4

d) 1 4 3 2

Q12. Fungi

- a) include both autotrophs and heterotrophs.
- b) always reproduce asexually using spores.
- c) cause tuberculosis and lyme disease in humans.
- d) include both unicellular and multicellular forms.

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Q13. Melatonin is produced by

- a) skin
 - b) thymus
 - c) pituitary
 - d) pineal gland
-

Q14. Double fertilization means

- a) fusion of two polar bodies
 - b) a male gamete fused with egg and second male gamete fused with secondary nucleus
 - c) fusion of male gametes and ovum
 - d) all the above
-

Q15. Which one among the following statements is correct?

- a) All veins carry oxygenated blood
- b) All arteries carry oxygenated blood
- c) Except the pulmonary artery, all other arteries carry oxygenated blood

d) Except the pulmonary vein, all other veins carry oxygenated blood

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Answers to the above questions :

Q1. Answer: (b)

Q2. Answer: (d)

Q3. Answer: (d)

Bark contains all the tissues outside the vascular cambium. It includes periderm, cortex, pericycle, primary and secondary phloem.

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Q4. Answer: (c)

Each mitochondrion is a double membrane-bound structure with the outer membrane and the inner membrane dividing its lumen distinctly into two aqueous compartments.

The chloroplast is also double membrane-bound. Of the two, the inner chloroplast membrane is relatively less permeable.

Q5. Answer: (d)

Q6. Answer: (c)

Q7. Answer: (d)

Q8. Answer: (a)

Q9. Answer: (a)

The junction between an axon and dendrite is known as a synapse through which nerve impulse is transmitted from one neuron to another.

A synapse consists of swelling at the end of nerve fibre called synaptic knob and a small synaptic vesicle containing neuro-transmitter—acetylcholine for the transmission of nerve impulse.

Q10. Answer: (b)

Fermentation is the process of production of alcohol from plant or microbial sugar under controlled conditions, aerobic cellular respiration is oxidation of plant stored food to produce energy, anaerobic respiration is production of energy from plant food in absence of oxygen.

Q11. Answer: (b)

Q12. Answer: (d)

Fungi include both unicellular and multicellular forms, with both asexually and sexually reproducing organisms. No fungal specie is autotroph.

TB is caused by Mycobacterium tuberculosis and Lyme disease is caused by bacterial species of Borrelia.

Q13. Answer: (d)

Melatonin is secreted by the pineal gland present between the cerebral hemispheres.

Melatonin concentration in blood follows a diurnal cycle, it rises in the evening and drops at noon. Melatonin lightens skin colour in certain animals and regulates the working of gonads.

Q14. Answer: (b)

Double fertilization means, a male gamete fused with egg and second male gamete fused with secondary nucleus.

Q15. Answer: (c)

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