

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

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Created By [Careericons](#) Team

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**Q1.** Growth is primarily affected by two climatic factors which are –

- a) Temperature and relative humidity
  - b) Light and wind
  - c) Light and temperature
  - d) Rainfall and temperature
- 

**Q2.** The pH of blood is

- a) between 2-4
  - b) between 7-8
  - c) between 12-14
  - d) between 2-5
- 

**Q3.** Respiration in plants

- a) results in the formation of vitamins
  - b) is characteristic of all living cells
  - c) occurs only during day
  - d) often requires CO<sub>2</sub>
- 

**Q4.** Functional and structural unit of kidney is

- a) seminiferous tubule
- b) nephron
- c) acini

d) None of these

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**Q5.** The dead element present in the phloem is

- a) phloem fibres
- b) companion cells
- c) phloem parenchyma
- d) sieve tube

**Q6.** End product of fermentation of sugars is

- a) CO<sub>2</sub>
- b) alcohol and CO<sub>2</sub>
- c) H<sub>2</sub>O and CO<sub>2</sub>
- d) alcohol

**Q7.** Which part of the plant do not perform photosynthesis?

- a) Guard cell of stomata
- b) Mesophyll cells of leaf
- c) Cactus stem
- d) Leaf epidermis

**Q8.** Hydroponics is a technique in which plants are grown in

- a) water saturated sand
- b) balanced nutrient solution
- c) green house

d) purified distilled water

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**Q9.** Bones are mainly made up of

- a) calcium and sulphur
  - b) calcium and phosphorous
  - c) calcium and magnesium
  - d) calcium and iron
- 

**Q10.** Which element is required in comparatively least quantity for the growth of plant?

- a) N
  - b) P
  - c) Zn
  - d) Ca
- 

**Q11.** Which one of the following organs in the human body is most affected due to shortage of oxygen?

- a) Skin
  - b) Intestine
  - c) Kidney
  - d) Brain
- 

**Q12.** Which of the following statements are wrong?

- Leucocytes disintegrate in the spleen and liver.
- RBC, WBC and blood platelets are produced in bone marrow.
- Neutrophils bring about destruction and detoxification of toxins of protein origin.
- The important function of lymphocytes is to produce antibodies.

- a) 1 and 3
- b) 1 and 4

c) 1 and 2

d) 2 and 3

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**Q13.** In PS-I the reaction centre Chl a has absorption maxima at \_\_\_\_\_, while in PS-II the reaction centre Chl a has absorption maxima at \_\_\_\_\_.

a) P<sub>700</sub>, P<sub>680</sub>

b) P<sub>800</sub>, P<sub>600</sub>

c) P<sub>680</sub>, P<sub>700</sub>

d) P<sub>700</sub>, P<sub>900</sub>

**Q14.** In expiration, diaphragm becomes

a) relaxed

b) flattened

c) straightened

d) arched

**Q15.** Which one of the following parts of the human brain is the regulating centre for swallowing and vomiting?

a) Cerebrum

b) Medulla oblongata

c) Cerebellum

d) Pons

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**Answers to the above questions :**

**Q1. Answer: (c)**

**Q2. Answer: (b)**

Blood is an opaque, mobile connective tissue fluid which has a salty taste. the pH of blood is between 7-8.

Hence, the blood possesses a slightly alkaline pH.

**Q3. Answer: (b)**

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**Q4. Answer: (b)**

**Q5. Answer: (a)**

**Q6. Answer: (b)**

The end product of the fermentation of sugars is alcohol and  $\text{CO}_2$ .

Sugars are the most common substrate of fermentation, and typical examples of fermentation products are ethanol, lactic acid, and hydrogen. However, more exotic compounds can be produced by fermentation, such as butyric acid and acetone.

Yeast carries out fermentation in the production of ethanol in beers, wines and other alcoholic drinks, along with the production of large quantities of carbon dioxide.

Fermentation occurs in mammalian muscle during periods of intense exercise where oxygen supply becomes limited, resulting in the creation of lactic acid.

**Q7. Answer: (d)**

**Q8. Answer: (b)**

**Q9. Answer: (b)**

Bone is the solid rigid strong connective tissue. Its matrix consists of ossein protein and mineralization of matrix occurs by calcium- phosphate salts. This gives rigidity and strength to bones.

**Q10. Answer: (c)**

**Q11. Answer: (d)**

Brain is the most vital organ. It stops functioning in the absence of  $O_2$  .

**Q12. Answer: (a)**

Leucocytes are removed from the circulation by macrophages located in the liver and spleen.

They may die and disintegrate in the connective tissue with remnants being phagocytized by histiocytes. Neutrophils are phagocytic cells which destroy foreign organisms entering the body.

**Q13. Answer: (a)**

**Q14. Answer: (d)**

**Q15. Answer: (b)**

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