MHT CET 2024 Question Paper (April 22 - Shift 1)

Ques 1. Which of the following statements best describes the relationship between the hormones ANF and Angiotensin 2 in terms of their physiological effects on the body?

A. **ANF promotes sodium reabsorption, while Angiotensin 2 dilates blood vessels**
B. **ANF dilates blood vessels, while Angiotensin 2 promotes sodium reabsorption**
C. **Both ANF and Angiotensin 2 promote sodium reabsorption.**
D. **Both ANF and Angiotensin 2 dilate blood vessels**

Ans: ANF dilates blood vessels, while Angiotensin 2 promotes sodium reabsorption

Ques 2. Which of the following factors ensures that coding for the same amino acid, such a methionine and valine, using identical anticodons remains non-ambiguous

A. Redundancy of the genetic code
B. Degeneracy of the genetic code
C. Complementary base pairing between codons and anticodons
D. The presence of start and stop codons in the mRNA

Ans: Degeneracy of the genetic code

Ques 3. In males, the penis is analogous to which structure in females?

findmycollege

A. Urethra
B. Labia majora
C. Clitoris
D. Vagina

Ans: Clitoris

Ques 4. Which of the following enzymes is secreted by the urinary bladder?

A. Amylase
B. Urease
C. Renin
D. The urinary bladder does not typically secrete enzyme

Ans: The urinary bladder does not typically secrete enzyme

Ques 5. Which of the following statements about pollen grains is incorrect?

A. Pollen grains develop from megaspores.
B. Pollen grains contain two cells: a generative cell and a tube cell.
C. Pollen grains are released from the stigma during pollination.
D. Pollen grains play a crucial role in the reproductive process of seed plants

Ans: Pollen grains develop from megaspores.

Ques 6. Which of the following statements is correct regarding the number of codons and their degeneracy?

A. There are 20 codons, and all of them exhibit degeneracy
B. There are 64 codons, and none of them exhibit degeneracy
C. There are 64 codons, and some of them exhibit degeneracy
D. There are 20 codons, and none of them exhibit degeneracy

Ans: There are 64 codons, and some of them exhibit degeneracy

Ques 7. Which of the following is an emulsion?

A. Butter
B. mist
C. Milk
D. Jellies

Ans: C) Milk

Ques 8. When a stem of a plant is cut a few inches above the soil and xylem sap is seen flowing out through the cut end, this exudation is considered evidence for the existence of root pressure. Who proposed the theory of root pressure ?

A Robert Hooke
B Stephen Hales
C Joseph Priestley
D Gregor Mendel

Ans. C

Ques 9. What is the transforming principle in Griffith's experiment?

A. A protein that transfers genetic information
B. A polysaccharide coat present in S-strain bacteria
C. A substance that can transfer genetic material from one bacterium to another
D. A lipid molecule responsible for bacterial transformation

Ans. C

Ques 10. Who first identified the transforming principle ?
A Oswald Avery
B Frederick Griffith

find my college

find my college

C James Watson
D Rosalind Franklin

Ans. C

---

find my college