

# MHT CET 2024 Question Paper

## (April 24 - Shift 2)

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Biology

**Ques 1. Phenylketonuria is caused by**

**Ans.** Phenylalanine hydroxylase (PAH)

**Ques 2. Arrange meninges in outer to inner order**

**Ans.** Dura mater, Arachnoid, Pia mater

**Ques 3. Which hormones do stimulate the production of pancreatic juice and bicarbonate?**

**Ans.** Cholecystokinin (CCK) and secretin

**Ques 4. Arrange the following menstrual phases in order.**

**Ans.** Menstruation, Follicular phase, Ovulation and Luteal phase

**Ques 5. Last electron acceptor in ETS is**

**Ans.** Oxygen (O<sub>2</sub>)

**Ques 6. Which of the following reverse the apical dominance. 1. Auxin, 2. Cytokinin, 3. Gibberellin.**

**Ans. 2) Cytokinin**

**Ques 7. From where female gametophyte does not developed from**  
**A megaspore mother cell**  
**B nucellus**  
**C megaspore**  
**D microspore mother cell**

**Ans. D**

**Ques 8. Inorganic phosphate involved in which step of respiration ?**

**Ans. Glycolysis**

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Physics

**Ques 1. A vessel completely filled with water has holes A and B at depths h and 3h from the top respectively Hole A is a square of side L and B is circle of radius r the water flowing out per second from both the holes is same then L is equal to**

**Ans.  $L = 3^{1/4} \pi^{1/2} r$**

**Ques 2. A cylinder of fixed capacity 67.2 litres contains helium gas at STP the amount of heat needed to rise the temperature of the gas in the cylinder by 20° C is**

**Ans. 747.9 J**

Chemistry

**Ques 1. Affinity of Hb towards CO, CO<sub>2</sub>, O<sub>2</sub> (Arrange in increasing order).**

**Ans. CO > CO<sub>2</sub> > O<sub>2</sub>**

**Ques 2. Boron has two isotopes with atomic masses 10 and 11 if it's average atomic mass is 10.81 the abundance of lighter isotope is**

**Ans. 19**

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