

# MHT CET 2024 Question Paper

## (April 28 - Shift 2)

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### Biology

**Ques 1. Match the following**

	Column - I		Column - II
1.	Stem cutting	a.	Blackberry
2.	Leaf cutting	b.	rose
3.	Root cutting	c.	sansevieria

**Ans.** 1- b, 2- a, 3- c

**Ques 2. Grapes fruit elongation which hormone is used?**

**Ans.** Gibberellins

**Ques 3. \_\_\_\_\_ is a middle layer of adrenal cortex.**

**Ans.** Zona fasciculata

**Ques 4. What vitamin is produced using Erenothecium ashbyi ?**

**Ans.** Vit. B-12

**Ques 5. The improved oil content and oil quality of oil crops like soybean oil palm rapeseed and sunflower have been achieved by the transfer of**

**Ans. Genes**

**Ques 6. Human skin colour is an example of**

**Ans. Polygenic Inheritance**

**Ques 7. Pyruvate dehydrogenase activity during aerobic respiration requires**

**Ans. Magnesium**

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## **Chemistry**

**Ques 1. Cross cannizzaro of formaldehyde and benzaldehyde give mixture of**

**Solu. Benzyl alcohol and sodium formate.**

**Ques 2. Which of the following represents the expression for 3/4th life of 1st order reaction**

**Solu.  $t_{3/4} = (2.303/k) * \log(4/3)$**

**Ques 3. Which of the following halide undergoes hydrolysis on warming with water/aqueous NaOH**

**Solu. 1-chloro-2,4,6-trinitrobenzene**

**Ques 4. Antibonding molecular orbital is formed by**

**Solu.** subtraction of two atomic orbitals

**Ques 5. Hot concentrated sulphuric acid is a moderately strong oxidizing agent which of the following reaction Does not show oxidizing behaviour**

**Solu.**  $2\text{H}_2\text{SO}_4 + \text{H}_2\text{O}_2 \rightarrow \text{H}_3\text{O}^+ + \text{SO}_4^{2-} + \text{H}_2\text{O}$

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