MHT CET 2024 Question Paper

(April 28 - Shift 2)

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

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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

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

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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. $2H_2SO_4 + H_2O_2 \rightarrow H_3O^+ + SO_4^{2-} + H_2O$

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