# MHT CET 2026 April 24 Shift 2

## Question Paper

Conducted by CET Cell, Maharashtra

### General Instructions

(i) **Duration:** The total duration of the examination is 3 hours (180 minutes).

(ii) **Total Marks:** The complete paper carries a maximum of 200 marks.

(iii) **Structure:** The paper has 3 Sections:

- **Section A:** 50 Multiple Choice Questions (Physics).
- **Section B:** 50 Multiple Choice Questions (Chemistry).
- **Section B:** 100 Multiple Choice Questions (Biology).

(iv) **Compulsory Questions:** All 200 questions are compulsory.

(v) Each question has four options. Only **one** option is correct.

(vi) **Correct Answer:** +1 marks.

(vii) **Incorrect Answer:** (No Negative marking).

(viii) **Unanswered/Marked for Review:** 0 marks.

**1. How many times does oxidation occur in one Krebs cycle?**

(A) Two times

(B) Three times

(C) Four times

(D) Six times

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**2. In hydrosere succession, which stage comes just before the sedge meadow stage?**

(A) Phytoplankton stage

(B) Submerged plant stage

(C) Reed swamp stage

(D) Woodland stage

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**3. Which part of the brain is responsible for maintaining posture and equilibrium?**

(A) Cerebrum

(B) Medulla oblongata

(C) Cerebellum

(D) Hypothalamus

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**4. What is the movement of cytoplasm within a cell called?**

(A) Diffusion

(B) Osmosis

(C) Cytoplasmic streaming (Cyclosis)

(D) Active transport

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**5. Which enzyme is deficient in patients with Phenylketonuria (PKU)?**

(A) Tyrosinase

(B) Phenylalanine hydroxylase

(C) Amylase

(D) Lactase

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**6. What is the SI unit of magnetic induction?**

(A) Weber

(B) Tesla

(C) Henry

(D) Gauss

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**7. What is the formula for the safety speed on a banked road?**

(A) $v = \sqrt{rg \sin\theta}$

(B) $v = \sqrt{\frac{rg}{\tan\theta}}$

(C) $v = \sqrt{rg\tan\theta}$

(D) $v = rg\tan\theta$

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**8. What is the unit of the $L/R$ ratio?**

(A) Ohm

(B) Henry

(C) Seconds

(D) Coulomb

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**9. What is the relationship between maximum kinetic energy and wavelength in the photoelectric effect?**

(A) $K.E. \propto \lambda$

(B) $K.E. \propto \lambda^2$

(C) $K.E. \propto \frac{1}{\lambda}$

(D) $K.E. \propto \sqrt{\lambda}$

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**10. What is the moment of inertia for two specific (solid) spheres about their common diameter?**

(A) $\frac{2}{5}MR^2$

(B) $\frac{7}{5}MR^2$

(C) $\frac{14}{5}MR^2$

(D) $\frac{4}{5}MR^2$

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