

# MHT CET 2026 April 23 Shift 2

## Question Paper (Memory Based)

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 C:** 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) **Right Answer:** Physics (+1 marks), Chemistry (+1 marks) and Biology(+1 marks).
- (vii) **Incorrect Answer:** (No Negative marking).
- (viii) **Unanswered/Marked for Review:** 0 marks.

1. Identify the special tissue in the epiphytic roots of orchids that absorbs atmospheric moisture.

- (A) Cortex
- (B) Velamen
- (C) Endodermis
- (D) Pericycle

---

2. Which organism causes typhoid fever?

- (A) Escherichia coli

- (B) *Vibrio cholerae*
  - (C) *Salmonella typhi*
  - (D) *Staphylococcus aureus*
- 

**3. How many times does oxidation occur in the Krebs cycle?**

- (A) Two times
  - (B) Three times
  - (C) Four times
  - (D) Six times
- 

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

- (A) Diffusion
  - (B) Osmosis
  - (C) Cytoplasmic streaming (Cyclosis)
  - (D) Active transport
- 

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

- (A) Weber (Wb)
  - (B) Tesla (T)
  - (C) Henry (H)
  - (D) Coulomb (C)
- 

**6. State the formula for the safety speed of a vehicle on a curved banked road.**

- (A)  $v = \sqrt{rg \sin \theta}$
- (B)  $v = \sqrt{rg \cos \theta}$
- (C)  $v = \sqrt{rg \tan \theta}$
- (D)  $v = \sqrt{\frac{g}{r \tan \theta}}$

---

7. What is the unit of the ratio  $L/R$  where  $L$  is inductance and  $R$  is resistance?

- (A) Ampere
- (B) Second
- (C) Ohm
- (D) Volt

---

8. How does the maximum kinetic energy of photoelectrons relate to wavelength ( $\lambda$ )?

- (A)  $K.E \propto \lambda$
- (B)  $K.E \propto \lambda^2$
- (C)  $K.E \propto \frac{1}{\lambda}$
- (D)  $K.E \propto \sqrt{\lambda}$

---

9. Calculate the moment of inertia for two spheres of radius 10 cm placed 20 cm apart.

- (A)  $\frac{7}{5}MR^2$
- (B)  $\frac{14}{5}MR^2$
- (C)  $\frac{9}{5}MR^2$
- (D)  $2MR^2$

---

10. What is the IUPAC name for Acetone?

- (A) Propanal
- (B) Propan-1-one
- (C) Propan-2-one
- (D) Butan-2-one

---

11. What is the IUPAC name for Glyceraldehyde?

- (A) 1,2,3-trihydroxypropane
- (B) 2,3-dihydroxypropanal

- (C) 1,3-dihydroxypropanone  
(D) 2-hydroxypropanal
- 

**12. What is the approximate magnetic moment of  $Mn^{2+}$ ?**

- (A) 4.9 BM  
(B) 5.9 BM  
(C) 6.9 BM  
(D) 3.9 BM
- 

**13. What product is formed when Phenol reacts with concentrated Nitric acid?**

- (A) Nitrobenzene  
(B) o-Nitrophenol  
(C) Picric acid  
(D) Benzoic acid
- 

**14. What is the oxidation state of Chlorine in  $Cl_2O_7$ ?**

- (A) +3  
(B) +5  
(C) +7  
(D) -1
-