

# MHT CET 2026 April 23 Shift 1

## Question Paper with Solutions (Memory Based)

Conducted by CET Cell, Maharashtra



### General Instructions

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- (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. What is the primary site of sperm production?

- (A) Epididymis
- (B) Vas deferens
- (C) Seminiferous tubules
- (D) Prostate gland

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2. Which hormone is primarily responsible for the relaxation of pelvic ligaments during childbirth?

- (A) Estrogen
  - (B) Progesterone
  - (C) Relaxin
  - (D) Oxytocin
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**3. The interaction where one species is harmed and the other is unaffected is called?**

- (A) Mutualism
  - (B) Commensalism
  - (C) Amensalism
  - (D) Parasitism
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**4. Which respiratory volume cannot be measured using a simple spirometer?**

- (A) Tidal Volume
  - (B) Inspiratory Reserve Volume
  - (C) Expiratory Reserve Volume
  - (D) Residual Volume
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**5. What is the vector responsible for transmitting Filariasis?**

- (A) Female Anopheles mosquito
  - (B) Female Culex mosquito
  - (C) Aedes mosquito
  - (D) Sandfly
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**6. Which part of the brain acts as the primary regulator for body temperature and hunger?**

- (A) Cerebellum
- (B) Hypothalamus
- (C) Medulla oblongata
- (D) Cerebrum

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7. How many ATP molecules are net gained during Glycolysis?

- (A) 2 ATP
- (B) 4 ATP
- (C) 6 ATP
- (D) 8 ATP

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8. What is the oxidation state of Phosphorus in  $H_3PO_4$ ?

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

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9. Which catalyst is used in the Rosenmund Reduction?

- (A) Pd–BaSO<sub>4</sub>
- (B) Ni catalyst
- (C) Pt catalyst
- (D) Cu catalyst

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10. What is the Effective Atomic Number (EAN) of  $Fe(CN)_6^{4-}$ ?

- (A) 34
- (B) 36
- (C) 38
- (D) 40

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11. What are the repeating monomer units of Nylon-6,6?

- (A) Ethylene glycol and Terephthalic acid
- (B) Adipic acid and Hexamethylenediamine

- (C) Caprolactam
  - (D) Styrene
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**12. What is the formula for the escape velocity of a body from Earth's surface?**

- (A)  $\sqrt{gR}$
  - (B)  $\sqrt{2gR}$
  - (C)  $\sqrt{g/2R}$
  - (D)  $2gR$
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**13. What is the relation between the height  $h$  and the range  $R$  when a projectile is fired at  $45^\circ$ ?**

- (A)  $R = h$
  - (B)  $R = 2h$
  - (C)  $R = 4h$
  - (D)  $R = 8h$
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**14. What is the SI unit of Luminous Intensity?**

- (A) Lux
  - (B) Candela
  - (C) Lumen
  - (D) Watt
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**15. In a stationary wave, what is the distance between a node and an adjacent antinode?**

- (A)  $\lambda/2$
  - (B)  $\lambda/4$
  - (C)  $\lambda/8$
  - (D)  $\lambda$
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