MHT CET 2026 April 24 Shift 1

Question Paper with Solutions (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. Who coined the term "Root Pressure Theory"?

(A) Julius von Sachs

(B) Stephen Hales

(C) J. Priestley

(D) Charles Darwin

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2. A particle performs linear S.H.M. with potential energy $U = 0.1\pi^2 x^2$. If the mass is $20\,g$, what is its frequency?

(A) 1.581 Hz

(B) 3.162 Hz

(C) 0.790 Hz

(D) 6.283 Hz

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3. Which reagent is used in the Stephen reaction to reduce nitriles to imines?

(A) $LiAlH_4$

(B) $SnCl_2/HCl$

(C) $NaBH_4$

(D) Zn/HCl

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4. Where is angiotensinogen secreted from in the human body?

(A) Kidney

(B) Pancreas

(C) Liver

(D) Spleen

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5. What are the monomers used to synthesize Bakelite?

(A) Ethene and Styrene

(B) Phenol and Formaldehyde

(C) Urea and Formaldehyde

(D) Ethylene glycol and Terephthalic acid

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6. If a star A has radiant power three times that of the Sun and a temperature of $6000\,K$ while the Sun has temperature $2000\,K$, what is the ratio of their radii $(R_A : R_{Sun})$?

(A) $1 : \sqrt{27}$

(B) $\sqrt{27} : 1$

(C) $1 : 9$

(D) $1 : 27$

7. What is the site of perception for photoperiodism induction in plants?

(A) Roots

(B) Leaves

(C) Stem apex

(D) Flowers

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8. Which molecule has a net dipole moment of zero among NH_3, H_2O, NF_3, and CCl_4?

(A) NH_3

(B) H_2O

(C) NF_3

(D) CCl_4

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9. What is the frequency of a wave with a speed of $30\,m/s$ if the distance between 11 consecutive crests is $1\,m$?

(A) $30\,Hz$

(B) $300\,Hz$

(C) $330\,Hz$

(D) $3\,Hz$

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10. What are the irregular muscular ridges on the inner surface of the heart's ventricles called?

(A) Trabeculae septomarginalis

(B) Papillary muscles

(C) Columnae carneae

(D) Chordae tendineae

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11. What is the name of the hydrocarbon that yields ethanal and propanone upon reductive ozonolysis?

(A) But-2-ene

(B) 2-Methylbut-2-ene

(C) 2-Methylbut-1-ene

(D) Pent-2-ene

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12. Which codon is known for its dual function as both an initiator codon and the codon for Methionine?

(A) UAA

(B) AUG

(C) UAG

(D) UGA

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13. What is the shunt resistance S needed if the galvanometer current I_g is 8% of the total current I?

(A) $\frac{2G}{23}$

(B) $\frac{8G}{23}$

(C) $\frac{23G}{2}$

(D) $\frac{G}{23}$

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14. Who is credited with the discovery of DNA?

(A) James Watson

(B) Francis Crick

(C) F. Miescher

(D) Rosalind Franklin
