

# MHT CET 2024 Question Paper (April 29 - Shift 1)

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## Biology Questions

**Ques.** Question related to the part of plant which we graft on stock which is rooted plant.

**Ques.** Question related to pioneer species in aquatic habitat.

**Ques.** How much heart pulse rate does a person produce in 1 minute?

**Ques.** Heam in heamoglobin is ?

**Ques.** How much ATP is produced by aerobic respiration?

**Ques.**

Statement 1 : Avery, McLeod, and McCarty discovered the semi-conservative nature of DNA.

Statement 2 : Meselson and Stahl used E. coli to demonstrate the semi-conservative nature of DNA.

- A. Statement 1 is correct, Statement 2 is incorrect
- B. Statement 2 is correct, Statement 1 is incorrect
- C. Both statements are correct
- D. Both statements are incorrect

**Ans.** B

**Ques.** X chromosome is

- A. Metacentric
- B. Acrocentric
- C. Telocentric
- D. Submetacentric

**Ans.** A

**Ques.** Thermal Cycler/Stabilizer is used for \_\_\_\_\_

**Ques.** What are some archaeological sites where Neanderthal remains and artifacts have been discovered ?

**Ques.** Which hormone is used to increase the size of fruit?

**Ques.** \_\_\_\_\_ can't be further hydrolysed.

**Ques.** Question related to Cloning and Fragmentation.

**Ques.** Which of the following uses plasma membrane for respiration ?

**Ques.** 0.16 seconds is a time interval for which in the ECG System?

**Ques.** Question related to Uninary bladder layers.

## Physics Questions

**Ques.** Question related to Frequency of open organ pipe and Closed organ

**Ques.** Question related to Oscillation

**Ques.** Rate of cooling of a body is  $0.2^{\circ}\text{C}/\text{min}$  when excess temperature is  $20^{\circ}\text{C}$  the proportionality constant is

**Ques.** A wheel of diameter 20 cm is rotating at 600 rpm the linear velocity of particle at its rim is

**Ques.** If a copper rod carries a direct current the magnetic field associated with the current will be

**Ques.** A pendulum having a negatively charged metal knob is oscillating on a positively charged surface, the time of pendulum will be

- A. Increase
- B. Decrease
- C. Will remain the same
- D. Will increase and then decrease

**Ans.** B

**Ques.** Find the ratio of K.E. and P.E. when a particle performs SHM when it is at  $(1/n)$  times of its amplitude from mean position

Ques. Question related to topics Logic Gates

Ques. Question related to cyclotron

## Chemistry Questions

**Ques.** What is the polymer of elastomer

**Ques.** Which one of the following is vinyl alcohol

- 1) But-2-en-2-ol
- 2) prop-2-en-1-ol

**Ques.** Question related to Wurtz fittig reaction

**Ques.** Which of the following doesn't obey octet rule

**Ques.** Alkyl halide and aryl halide react in presence of sodium metal and dry ether. Name of reaction = ?

**Ques.** Which element has the highest oxidising potential?

- A. Li
- B. Cu
- C. Al
- D. Mg

**Ans.** A

**Ques.** Lowest boiling point .....

- A. He
- B. Ne
- C. O
- D. F

**Ans.** A

**Ques.** Glycerol formula

**Ques.** Which of the ligand has two donor atoms among the following

- A. Cl
- B. I
- C. Oxalate
- D. H<sub>2</sub>O

**Ans.** C

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