

Questions with Answer Keys

MathonGo

Q1: 16 March (Shift 1) - Single Correct

Given below are two statements:

Statement I : H_2O_2 can act as both oxidising and reducing agent in basic medium.

Statement II : In the hydrogen economy, the energy is transmitted in the form of dihydrogen. In the light of the

above statements, choose the correct answer from the options given below:

- (1) Both statement I and statement II are false
- (2) Both statement I and statement II are true
- (3) Statement I is true but statement II is false
- (4) Statement I is false but statement II is true

Q2: 16 March (Shift 2) - Single Correct

The correct statements about H_2O_2 are:

- (A) used in the treatment of effluents.
- (B) used as both oxidising and reducing agents.
- (C) the two hydroxyl groups lie in the same plane.
- (D) miscible with water.

Choose the correct answer from the options given below:

- (1) (A), (B), (C) and (D)
- (2) (A), (B) and (D) only
- (3) (B), (C) and (D) only
- (4) (A), (C) and (D) only

Q3: 17 March (Shift 1) - Single Correct

The INCORRECT statement(s) about heavy water is (are)

- (a) used as a moderator in nuclear reactor
- (b) obtained as a by-product in fertilizer industry.
- (c) used for the study of reaction mechanism

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(d) has a higher dielectric constant than water

Choose the correct answer from the options given below:

(1) (B) only

(2) (C) only

(3) (D) only

(4) (B) and (D) only

Q4: 18 March (Shift 2) - Single Correct

In basic medium, H_2O_2 exhibits which of the following reactions?

(A) $\text{Mn}^{2+} \rightarrow \text{Mn}^{4+}$

(B) $\text{I}_2 \rightarrow \text{I}^-$

(C) $\text{PbS} \rightarrow \text{PbSO}_4$

Choose the most appropriate answer from the options given below:

(1) (A), (C) only

(2) (A) only

(3) (B) only

(4) (A), (B) only

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Answer Key

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Q1 (2)

Q2 (2)

Q3 (3)

Q4 (4)

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