

Questions with Answer Keys

MathonGo

Q1: 16 March (Shift 2) - Single Correct

The INCORRECT statements below regarding colloidal solutions is:

- (1) A colloidal solution shows colligative properties.
- (2) An ordinary filter paper can stop the flow of colloidal particles.
- (3) The flocculating power of Al^{3+} is more than that of Na^+
- (4) A colloidal solution shows Brownian motion of colloidal particles.

Q2: 17 March (Shift 1) - Single Correct

With respect to drug-enzyme interaction, identify the wrong statement:

- (1) Non-Competitive inhibitor binds to the allosteric site
- (2) Allosteric inhibitor changes the enzyme's active site
- (3) Allosteric inhibitor competes with the enzyme's active site
- (4) Competitive inhibitor binds to the enzyme's active site

Q3: 17 March (Shift 2) - Single Correct

For the coagulation of a negative sol, the species below, that has the highest flocculating power is:

- (1) SO_4^{2-}
- (2) Ba^{2+}
- (3) Na^+
- (4) PO_4^{3-}

Q4: 18 March (Shift 2) - Single Correct

The charges on the colloidal CdS sol and TiO_2 sol are, respectively:

- (1) positive and positive
- (2) positive and negative
- (3) negative and negative

Questions with Answer Keys

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(4) negative and positive

Q5: 18 March (Shift 2) - Single Correct

A hard substance melts at high temperature and

is an insulator in both solid and in molten state. This solid is most likely to be a / an :

(1) Ionic solid

(2) Molecular solid

(3) Metallic solid

(4) Covalent solid

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Answer Key

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Q1 (2)

Q2 (3)

Q3 (2)

Q4 (4)

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Q5 (4)

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