

Chapter 5

Surface Chemistry

(Assertion and Reason Questions)

Directions: These questions consist of two statements, each printed as Assertion and Reason. While answering these questions, you are required to choose any one of the following four responses.

- (a) If both Assertion and Reason are correct and the Reason is a correct explanation of the Assertion.
- (b) If both Assertion and Reason are correct but Reason is not a correct explanation of the Assertion.
- (c) If the Assertion is correct but Reason is incorrect.
- (d) If both the Assertion and Reason are incorrect.

Q.1. Assertion: Detergents with low CMC are more economical to use.

Reason: Cleansing action of detergents involves the formation of micelles. These are formed when the concentration of detergents becomes equal to CMC.

Q.2. Assertion: An ordinary filter paper impregnated with collodion solution stops the flow of colloidal particles.

Reason: Pore size of the filter paper becomes more than the size of colloidal particle.

Q.3. Assertion : The value of colligative properties are of small order for colloids as compared to true solution.

Reason : Number of particles in colloidal solution is comparatively smaller than true solutions.

-X-X-X-

ANSWER KEY

Q.1 : (a)

Q.2 : (c)

Q.3 : (a) Colligative properties depend upon number of particles.