

## Chapter 5

### Surface Chemistry

#### ( Assertion and Reason Questions )

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**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.