

NEET SURFACE CHEMISTRY — CATALYSIS — PYQS

Max. Marks: 16

Questions: 4

Section A (MCQ) — 4 questions

Q.1 Which one is an example of heterogeneous catalysis? [NEET (UG) 2023]

- (1) Hydrolysis of sugar catalysed by H^+ ions.
- (2) Decomposition of ozone in presence of nitrogen monoxide.
- (3) Combination between dinitrogen and dihydrogen to form ammonia in the presence of finely divided iron.
- (4) Oxidation of sulphur dioxide into sulphur trioxide in the presence of oxides of nitrogen.

 Scan or tap for the
full solution


Q.2 Which one of the following statements is not correct? [NEET 2017]

- (1) The value of equilibrium constant is changed in the presence of a catalyst in the reaction at equilibrium.
- (2) Enzymes catalyse mainly bio-chemical reactions.
- (3) Coenzymes increase the catalytic activity of enzyme.
- (4) Catalyst does not initiate any reaction.

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Q.3 Which one of the following statements is incorrect about enzyme catalysis? [AIPMT 2012 (Prelims)]

- (1) Enzymes are mostly proteinous in nature.
- (2) Enzyme action is specific.
- (3) Enzymes are denatured by ultraviolet rays and at high temperature.
- (4) Enzymes are least reactive at optimum temperature.

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Q.4 According to the adsorption theory of catalysis, the speed of the reaction increases because [AIPMT 2003]

- (1) the concentration of reactant molecules at the active centres of the catalyst becomes high due to adsorption
- (2) in the process of adsorption, the activation energy of the molecules becomes large
- (3) adsorption produces heat which increases the speed of the reaction
- (4) adsorption lowers the activation energy of the reaction.

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ANSWER KEY

Ques.	1	2	3	4							
Ans.	3	1	4	4							