

## Questions with Answer Keys

MathonGo

## Q1 (20 July 2021 Shift 2)

Which one of the following statements is not true about enzymes ?

- (1) Enzymes are non-specific for a reaction and substrate.
- (2) Almost all enzymes are proteins.
- (3) Enzymes work as catalysts by lowering the activation energy of a biochemical reaction.
- (4) The action of enzymes is temperature and pH specific

## Q2 (25 July 2021 Shift 1)

Sodium stearate  $\text{CH}_3(\text{CH}_2)_{16}\text{COO}^- \text{Na}^+$  is an anionic surfactant which forms micelles in oil.

Choose the correct statement for it from the

following :

- (1) It forms spherical micelles with  $\text{CH}_3(\text{CH}_2)_{16}$  - group pointing to wards the centre of sphere.
- (2) It forms non-spherical micelles with  $-\text{COO}^-$  group pointing outwards on the surface.
- (3) It forms spherical micelles with  $\text{CH}_3(\text{CH}_2)_{16}$  - group pointing outwards on the surface of sphere
- (4) It forms non-spherical micelles with  $\text{CH}_3(\text{CH}_2)_{16}$  - group pointing towards the centre.

## Q3 (27 July 2021 Shift 1)

Match List-I with List-II :

## List-I

(Drug)

(a) Furacin

(b) Arsphenamine

(c) Dimetone

(d) Valium

## List-II

(Class of Drug)

(i) Antibiotic

(ii) Tranquilizers

(iii) Antiseptic

(iv) Synthetic antihistamines

Choose the most appropriate match:

- (1) (a) - (i), (b) - (iii), (c) - (iv), (d) - (ii)

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(2) (a)-(iii), (b)-(iv), (c)-(ii), (d)-(i)

(3) (a)-(ii), (b)-(i), (c)-(iii), (d)-(iv)

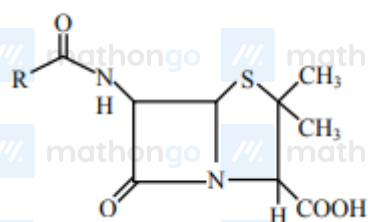
(4) (a)-(iii), (b)-(i), (c)-(iv), (d)-(ii)

## Q4 (27 July 2021 Shift 2)

Given below are two statements :

Statement I : Penicillin is a bacteriostatic type antibiotic.

Statement II : The general structure of Penicillin is:



Choose the correct option :

(1) Both statement I and statement II are false

(2) Statement I is incorrect but statement II is true

(3) Both statement I and statement II are true

(4) Statement I is correct but statement II is false

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**Answer Key**

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**Q1 (1)****Q2 (1)****Q3 (4)****Q4 (2)**

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#MathBoleTohMathonGo

## Hints and Solutions

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Q1

Fact

Q2

Forms spherical micelles with  $\text{CH}_3(\text{CH}_2)_{16}$  group pointing towards the centre of sphere

Q3

→ furacine acts as Antiseptic

→ Arsphenamine also known as salvarsan acts as antibiotic

→ Dimetone is synthetic histamine

→ valium is a Tranquilizer

Q4

Statement I : Pencillin is bactericidal not

bacteriostatic hence given statement is false. Statement II : Structure of pencilline given is correct

