DPP – 07
CLASS – 12th
TOPIC – PRACTICE QUESTIONS

Q.1 The value of observed and calculated molecular weight of silver nitrate are 92.64 and 170 respectively.
The degree of dissociation of silver nitrate is :
(a) 60%
(b) 83.5%
(c) 46.7%
(d) 60.23%

Q.2 Van't Hoff factor is :
(a) Less than one in case of dissociation
(b) More than one in case of association
(c) Always less than one
(d) Less than one in case of association

Q.3 The Vant Hoff factor (i) for a dilute solution of K3[Fe(CN)6] is :
(a) 10
(b) 4
(c) 5
(d) 0.25

Q.4 The experimental molecular weight of an electrolyte will always be less than its calculated value because the value of vant Hoff factor, 'i' is :
(a) Less than 1
(b) Greater than 1
(c) One
(d) Zero

Q.5 The substance A when dissolved in solvent B shows the molecular mass corresponding to A3. The vant Hoff's factor will be –
(a) 1
(b) 2
(c) 3
(d) 1/3

Q.6 Which of the following salt has the same value of Vont Hoff's factor as that of K3[Fe(CN)6]
(a) Al2(SO4)3
(b) NaCl
(c) Al(NO3)3
(d) Na2SO4

Q.7 The van't Hoff factor i for an infinitely dilute solution of NaHSO4 is :

(a) ½

(b) 1/3

(c) 3

(d) 2

Q.8 The experimental molecular weight of CH3COOH dissolved in benzene will always be more than its calculated value because the value of vant Hoff factor, 'i' is –

(a) Less than 1

(b) Greater than 1

(c) One

(d) Zero

SOLUTION

(Chemistry) SOLUTIONS AND COLLIGATIVE

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Sol.1 B

Sol.2 D

Sol.3 B

Sol.4 B

Sol.5 D

Sol.6 C

Sol.7 C

Sol.8 A