DSSSB Chemical Assistant 2026

Sample Questions: **10** | Sections: **9**

Section overview

Section	Questions	Count
Atomic Structure and Periodicity	1	1
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Atomic Structure and Periodicity

Q.1 | 1 question

Q.1 The Pauling electronegativity of gallium (1.81) is higher than that of aluminium (1.61) because

(A) poor 3d shielding raises the effective nuclear charge of gallium

(B) gallium has fewer occupied electron shells than aluminium has

(C) gallium has fewer protons in its nucleus than aluminium

(D) gallium has a larger metallic radius than aluminium does

Chemical Bonding and Solid State

Q.2 | 1 question

Q.2 Ammonia has a larger dipole moment than NF_3 mainly because

(A) fluorine is less electronegative than hydrogen in these bonds

(B) NF_3 is planar triangular in shape, whereas NH_3 is pyramidal

(C) NH_3 has two lone pairs on nitrogen whereas NF_3 has one

(D) N-F dipoles oppose the lone pair dipole; N-H dipoles reinforce it

Chemical Thermodynamics

Q.3 | 1 question

Q.3 A bomb calorimeter has a heat capacity of 8.0 kJ K^{-1}. Combustion of a sample raises its temperature by 2.5 K. The heat released is

(A) 20 kJ **(B)** 0.3 kJ **(C)** 3.2 kJ **(D)** 10.5 kJ

Chemical and Ionic Equilibrium

Q.4 | 1 question

Q.4 Which of the following pairs forms an acidic buffer solution?

(A) NaOH and NaCl **(B)** CH_3COOH and CH_3COONa

(C) NH_4OH and NH_4Cl **(D)** HCl and NaCl

Electrochemistry

Q.5 | 1 question

Q.5 The emf of the cell $Zn|Zn^{2+}(0.01\ M)||Cu^{2+}(1\ M)|Cu$ at 298 K is $(E^{\circ}_{cell} = 1.10\ V)$

(A) 1.22 V **(B)** 1.16 V **(C)** 1.04 V **(D)** 1.10 V

Solutions and Phase Equilibria

Q.6 | 1 question

Q.6 Assuming complete dissociation, which 0.1 m aqueous solution has the lowest freezing point?

(A) NaCl **(B)** Glucose **(C)** K_2SO_4 **(D)** $AlCl_3$

Inorganic Chemistry

Q.7 | 1 question

Q.7 Ozone reacts with moist potassium iodide solution to liberate

(A) hydrogen iodide **(B)** iodate ions

(C) potassium peroxide **(D)** iodine

Organic Chemistry

Q.8–9 | 2 questions

Q.8 The absolute configuration of D-(+)-glyceraldehyde according to the CIP rules is

(A) meso **(B)** S **(C)** racemic **(D)** R

Q.9 The S_N2 reaction of a primary alkyl halide with a good nucleophile is fastest in

(A) ethanol **(B)** methanol

(C) dimethyl sulfoxide (DMSO) **(D)** water

Analytical Chemistry

Q.10 | 1 question

Q.10 To prepare 250 mL of 0.10 M HCl from a 10 M stock solution, the volume of stock needed is

(A) 10 mL **(B)** 0.25 mL **(C)** 25 mL **(D)** 2.5 mL

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