Chemistry Model Question Paper - 10

Gram molecular volume of oxygen at STP is
(A) 11200 cm ³
(B) 22400 cm ³
(C) 5600 cm3
(D) 3200 cm3
Answer: (B)
Question 4 :
Graphite is a soft solid lubricant extremely difficult to melt. The reason for this anomalous
behaviour is that graphite
(A) has molecules of variable molecular masses like polymers.
(B) has carbon atoms arranged in large plates of rings of strongly bound carbon atoms with weak
interplate bonds.
(C) is a non-crystalline substance.
(D) is an allotropic form of carbon.
Answer: (B)

Question 5 : Helium is used in balloons in place of hydrogen because it is (A) incombustible

(B) lighter than hydrogen
(C) radioactive
(D) more abundant than hydrogen
Answer: (A)
Question 6:
Hofmann's bromamide reaction is to convert (A) amine to amide
(B) amide to amine
(C) alcohol to acid
(D) acid to alcohol
Answer: (B)
Question 7:
How many chiral carbon atoms are present in 2, 3, 4 – trichloropentane?
(A) 3
(B) 2
(C) 1

(D) 4
Answer: (B)
Question 8: How many optically active stereoisomers are possible for butan-2, 3-diol? (A) 1
(B) 2
(C) 3
(D) 4
Answer: (B)
Question 9:
Hydrogen gas is not liberated when the following metal is added to dil. HCl
(A) Ag
(B) Zn
(C) Mg
(D) Sn
Answer: (A)
Question 10:

Hydroxyl ion concentration of 1M HCl is	
(A) 1 × 10 ₁₄ mol dm ₋₃	
(B) 1 × 10-1mol dm-3	
(C) 1 × 10-13mol dm–3	
(D) 1 × 101mol dm–3	

Answer: (A)