

DAV CENTENARY PUBLIC SCHOOL, PASCHIM ENCLAVE, NEW DELHI-87

Answer key of nomenclature of coordination compounds

Q1. (a) 4 (b) 8 (c) 6 (d) 6 (e) 2 (f) 5 (g) 6 (h) 6

Q2. (a) +2 (b) +4 (c) +3 (d) 0 (e) +1 (f) +2 (g) +3 (h) +2

Q3. (a) C.N. = 6, O.S. = +3 (b) C.N. = 2, O.S. = +1 (c) C.N. = 4, O.S. = +2 (d) C.N. = 6, O.S. = +2 (e) C.N. = 4, O.S. = +3 (f) C.N. = 6, O.S. = +3 (g) C.N. = 6, O.S. = +3 (h) C.N. = 6, O.S. = +2

Q4. (a) Potassiumdichloridodioxalatochromate(III)

(b) Diamminesilver(I)nitrate

(c) Bis(ethane-1,2-diamine)copper(II)sulphate

(d) Caesiumtetrachloridoferrate(III)

(e) Ammoniumhexachloridorhodate(III)

(f) Aquabromidobis(ethane-1,2-diamine)cobalt(III)bromide

(g) Magnesiumdiaquadioxalatocuperate(II)

(h) Zinc(II)hexachloridoplatinate(IV) (O.S. of Zn = +2)

(i) Sodium(ethylenediaminetetraacetato)manganate(II)

(j) Tetrachloridomercurate(II)ion

(k) Dicyanidoaurate(I)ion

(l) Octafluoridozirconate(IV)ion

(m) Pentacyanidonickelate(IV)ion

(n) Tetraaquadichloridochromium(II)ion

(o) Aquabromidobis(ethane-1,2-diamine)cobalt(III)ion

(p) Bromidopentacarbonylmolybdate(0)ion

(q) Diaquadioxalatocuperate(II)ion

(r) Triamminetriaquachromium(III)chloride

(s) Tris(ethane-1,2-diamine)cobalt(III)sulphate

Q5. (a) Tetraammineaquachloridocobalt(III)chloride

(b) Potassiumtetrahydrozincate(II)

(c) Potassiumtrioxalatoaluminate(III)

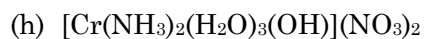
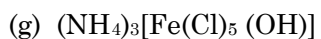
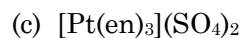
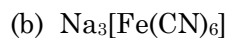
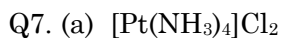
(d) Dichloridobis(ethane-1,2-diamine)cobalt(III)ion

(e) Tetracarbonylnickel(0)

- (f) Bis(ethane-1,2-diamine)dichloridocobalt(III)chloride
 - (g) Diamminechloridonitrito-N-platinum(II)
 - (h) Potassiumtrioxalatochromate(III)
 - (i) Mercury(I)tetrathiocynato(III)
 - (j) Pentaamminecarbnatocobalt(III)chloride
 - (k) Hexaamminecobalt(III)chloride
 - (l) Pentaamminechloridocobalt(III)chloride
 - (m) Potassiumtrioxalatoferrate(III)
 - (n) Potassiumtetrachloridopaladate(II)
 - (o) Diamminechlorido(methylamine)platinum(II)chloride
 - (p) Potassiumdiaquadioxalatochromate(III)trihydrated
 - (q) Trichloridotri(pyridine)chromium(III)
 - (r) Potassiumhexacyanidomangante(II)
 - (s) Pentaamminechloridocobalt(III)chloride
 - (t) Caesiumtetrachloridoferrate(III)
 - (u) Potassiumdiaquadioxalatochromate(III)
 - (v) Pentaamminenitrito-N-cobalt(III)nitrate
 - (w) Ammineaquadichloridoplatinum(II)
 - (x) Tris(ethane-1,2-diamine)cobalt(III)chloride
 - (y) Hexaaquatitanium(III)ion
 - (z) Tetrachloridonickelate(II)ion
- Q6. (i) Aquacyanidobis(ethane-1,2-diamine)cobalt(III)ion
- (ii) Tetrachloridoplatinate(II)ion
 - (iii) Triamminetrichloridochromium(III)
 - (iv) Dibromidobis(ethane-1,2-diamine)cobalt(III)ion
 - (v) Potassiumhexacyanidoferrate(III)
 - (vi) Hexaaquamangnese(III)ion
 - (vii) Hexaamminenickel(II)chloride
 - (viii) Tris(ethane-1,2-diamine)cobalt(III)ion
 - (ix) Tetracarbonylnickel(0)
 - (x) Hexaamminecobalt(III)chloride

(xi) Tetraamminechloridonitrito-N-cobalt(III)chloride

(xii) Diamminechlorido(methylamine)platinum(II)chloride



(i) same as (h)

