

TOPICWISE WEIGHTAGE OF MARKS FOR CSIR NET CHEMICAL SCIENCES

(June 2011 to 2020)

INORGANIC CHEMISTRY

UNIT	NUMBER OF MARKS																						
	Dec. 2016		June 2016		Dec. 2015		June 2015		Dec. 2014		June 2014		Dec. 2013		June 2013		Dec. 2012		June 2012		Dec. 2011		June
	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Mark	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks
Chemical Periodicity	-	-	-	-	2	-	2	-	4	-	-	8	-	-	2	-	2	-	2	-	-	-	-
Chemical Bonding	2	8	4	12	2	4	-	4	-	4	4	-	12	4	-	4	4	-	4	4	4	8	6
Acids and Bases	2	4	-	4	-	-	-	4	4	-	-	-	2	-	-	4	2	4	2	4	-	-	-
Main Group Elements	-	8	2	4	10	12	6	16	-	20	-	8	2	32	6	4	-	12	2	16	8	8	-
Coordination Compounds	8	20	2	16	8	20	4	16	8	24	8	24	4	20	6	28	8	16	10	12	6	20	10
Inner Transition Metal	2	-	2	-	2	4	-	4	-	-	-	4	-	4	-	8	-	4	-	8	-	8	-
Organometallic Compounds	4	32	8	24	4	32	8	24	10	16	6	12	6	20	8	16	8	24	4	8	4	16	6
Bio-Inorganic Chemistry	4	12	4	8	4	4	4	4	6	8	4	12	4	4	4	4	2	12	2	8	2	12	2
Nuclear Chemistry	2	-	2	4	-	4	2	-	-	-	2	8	2	-	2	-	-	-	2	4	-	4	2
Analytical Chemistry	4	8	6	4	4	8	2	8	4	16	6	8	2	12	-	-	2	8	2	12	6	-	2
Characterisation of Inorganic Compounds by Spectroscopy	4	8	2	24	-	8	4	8	-	4	4	-	-	4	2	-	4	12	-	16	2	8	2

UNIT	NUMBER OF MARKS																			
	June 2017		Dec. 2017		June 2018		Dec. 2018		June 2019		Dec. 2019		CSIR 2020							
	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks						
Chemical Periodicity	-	-	2	4	2	4	-	-	-	-	-	-	2	-						
Chemical Bonding	2	-	8	4	6	4	10	4	2	8	4	4	2	4						
Acids and Bases	2	4	-	4	-	4	2	-	-	-	2	4	2	-						
Main Group Elements	2	4	-	8	-	8	-	16	6	16	2	12	2	12						
Coordination Compounds	8	16	4	12	6	12	6	12	4	20	4	24	8	16						
Inner Transition Metal	2	-	2	8	2	4	-	4	2	-	2	-	2	4						
Organometallic Compounds	4	16	0	20	4	32	2	28	6	16	2	16	2	24						
Bio-Inorganic Chemistry	4	8	2	8	2	4	2	4	2	8	2	4	4	4						
Nuclear Chemistry	2	8	2	-	-	4	-	4	-	8	2	-	2	-						
Analytical Chemistry	2	4	2	8	-	4	2	4	4	4	2	8	2	4						
ESR & Mossbauer	-	8			-	4	-	4	-	-	-	4	2	4						
Atomic Structure					4	4	2	-	2	-	-	-	-	8						

CSIR-NET - ANALYSIS OF QUESTION PAPER

PHYSICAL CHEMISTRY

UNIT	NUMBER OF MARKS																							
	Dec. 2016		June 2016		Dec. 2015		June 2015		Dec. 2014		June 2014		Dec. 2013		June 2013		Dec. 2012		June 2012		Dec. 2011		June 2011	
	2 Marks B	4 Marks C	2 Marks B	4 Marks C	2 Marks B	4 Marks C	2 Marks B	4 Marks C	2 Marks B	4 Marks C	2 Marks B	4 Marks C	2 Marks B	4 Marks C	2 Marks B	4 Marks C	2 Marks B	4 Marks C	2 Marks B	4 Marks C	2 Marks B	4 Marks C	2 Marks B	4 Marks C
QUANTUM CHEMISTRY	4	24	4	28	6	8	4	12	4	24	6	24	4	24	4	20	6	24	6	20	4	16	6	
CHEMICAL THERMODYNAMICS & THERMOCHEMISTRY	2	8	4	8	6	12	2	8	6	12	4	12	4	16	4	8	2	8	4	8	4	12	2	
CHEMICAL KINETICS	4	12	4	12	4	12	6	16	2	16	6	8	4	12	4	16	4	16	6	12	4	16	4	
ELECTROCHEMISTRY	4	12	6	8	4	8	4	8	2	4	2	12	4	8	2	8	6	8	2	12	2	12	4	
MOLECULAR SPECTROSCOPY	2	12	-	4	2	12	2	8	6	12	-	4	-	8	2	8	6	4	2	4	2	8	2	
GROUP THEORY	2	8	2	12	-	8	2	4	2	8	4	8	2	8	4	8	-	4	2	8	2	8	4	
STATISTICAL THERMODYNAMICS	2	4	-	8	-	4	-	8	2	12	4	4	-	4	-	4	-	4	-	4	-	4	2	
SOLID STATE	2	4	2	4	2	4	2	4	2	4	2	8	6	12	6	12	2	20	4	8	4	8	4	
COLLOIDS & SURFACE	2	-	2	4	2	4	2	8	2	4	2	4	2	-	2	4	2	8	-	8	-	4	2	
EQUILIBRIA	2	4	-	4	-	4	2	4	2	-	-	8	2	4	2	4	2	-	2	8	-	8	2	
POLYMER CHEMISTRY	2	4	-	4	2	4	2	4	2	-	-	-	-	4	2	4	-	4	2	4	2	-	-	
DATA ANALYSIS	2	-	2	-	2	-	-	4	2	-	-	4	-	-	2	4	2	-	-	4	-	4	2	
KINETIC THEORY OF GASES	-	-	2	-	2	-	-	-	2	-	2	-	-	-	-	-	-	-	-	-	2	-	-	
SOLUTION & COLLIGATIVE PROPERTIES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	-	

UNIT	NUMBER OF MARKS																	
	June 2017		Dec. 2017		June 2018		Dec. 2018		June 2019		Dec. 2019		CSIR 2020					
	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks				
QUANTUM CHEMISTRY	4	12	6	16	2	24	2	16	4	16	2	20	2	20				
CHEMICAL THERMODYNAMICS & THERMOCHEMISTRY	4	8	2	8	2	4	4	4	2	16	4	8	2	12				
CHEMICAL KINETICS	4	12	2	12	6	8	4	8	2	8	2	8	2	8				
ELECTROCHEMISTRY	2	4	2	8	2	8	2	8	4	4	4	8	2	8				
MOLECULAR SPECTROSCOPY	2	4	4	8	2	8	2	8	6	8	2	8	2	8				
GROUP THEORY	–	16	2	4	2	12	2	8	2	8	2	4	2	8				
STATISTICAL THERMODYNAMICS	–	8	–	8	–	4	–	8	0	8	2	4	–	4				
SOLID STATE	2	4	2	4	2	4	2	4	2	4	2	4	2	8				
COLLOIDS & SURFACE	4	4	2	4	2	4	2	4	0	4	–	4	2	4				
EQUILIBRIA	2	4	–	–	–	4	2	4	–	–	–	4	–	–				
POLYMER CHEMISTRY	2	4	2	4	2	–	2	4	2	4	2	4	2	4				
DATA ANALYSIS	–	–	2	–	2	–	–	–	2	–	2	–	2	–				
KINETIC THEORY OF GASES	–	–	–	–	–	–	2	–	–	–	2	–	2	–				
SOLUTION & COLLIGATIVE PROPERTIES	–	–	–	–	2	–	–	–	–	–	–	–	–	–				

ORGANIC CHEMISTRY

UNIT		NUMBER OF MARKS																							
		Dec. 2016		June 2016		Dec. 2015		June 2015		Dec. 2014		June 2014		Dec. 2013		June 2013		Dec. 2012		June 2012		Dec. 2011		June 2010	
		B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Mark	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks
Aromaticity		-	4	-	-	-	-	2	-	2	-	-	-	2	-	-	4	2	-	-	-	2	-	2	-
GOC		6	-	6	-	-	-	2	-	4	-	4	-	2	-	-	-	4	-	-	-	-	-	-	-
Stereochemistry		6	4	6	-	2	4	4	8	6	-	6	-	6	4	4	8	6	12	6	8	6	4	6	-
Intermediate & Reaction Mechanism		8	24	2	24	8	20	6	16	2	16	6	24	2	16	6	12	8	16	10	16	4	20	10	-
Named Reaction & rearrangement		2	12	2	16	-	4	-	8	2	8	-	4	2	16	-	4	-	12	2	8	2	8	-	-
Reagent		2	20	4	20	4	28	4	28	2	28	-	24	-	20	6	20	2	20	2	28	4	28	6	-
Asymmetric Synthesis		-	8	-	8	-	4	-	8	-	8	-	4	-	4	-	8	-	-	2	4	-	4	2	-
Pericyclic/Photochemistry		-	12	4	16	6	20	2	16	-	16	6	16	4	16	4	16	4	16	2	12	2	16	6	-
Heterocyclic		-	8	-	8	2	4	-	12	4	8	4	4	4	4	2	8	2	-	-	8	2	8	-	-
Natural Product		4	-	4	-	4	4	6	-	6	-	6	12	8	16	6	4	6	16	6	8	4	4	-	-
Organic Spectroscopy	NMR	6	8	2	8	4	4	4	4	2	8	2	8	2	8	-	8	2	8	4	8	2	8	-	-
	IR	2	-	2	-	2	-	2	-	2	-	-	-	2	-	2	-	2	-	-	-	2	-	2	-
	Mass	-	-	-	-	2	-	-	-	2	-	-	4	-	-	-	-	-	-	-	-	2	-	2	-
	UV	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	2	-

UNIT		NUMBER OF MARKS																			
		June 2017		Dec 2017		June 2018		Dec. 2018		June 2019		Dec. 2019		CSIR 2020							
		B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	B 2 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks	B 2 Marks	C 4 Marks						
Aromaticity		-	-	-	-	2	-	-	-	2	-	-	-	2	-						
GOC		4	-	4	-	2	-	-	-	-	-	4	-	6	-						
Stereochemistry		2	8	4	4	2	-	4	-	6	-	-	4	4	-						
Intermediate & Reaction Mechanism		4	16	8	20	4	20	16	20	6	8	10	20	2	16						
Named Reaction & rearrangement		4	8	-	8	-	8	-	8	-	16	-	24	-	24						
Reagent		2	16	-	16	4	16	-	20	2	24	4	16	-	24						
Asymmetric Synthesis		-	8	-	8	-	4	-	4	-	4	-	-	2	4						
Pericyclic/Photochemistry		4	8	2	12	2	16	4	16	2	16	4	8	4	4						
Heterocyclic		-	4	-	4	-	4	-	-	-	4	-	-	-	4						
Natural Product		4	8	4	4	2	4	2	4	4	-	2	-	4	-						
Organic Spectroscopy	NMR	2	12	4	4	2	8	-	8	2	8	4	4	2	8						
	IR	-	-	2	-	2	-	-	2	-	-	2	-	2	-						
	Mass	-	4	2	-	2	-	-	-	2	-	-	4								
	UV	-	-	-	-	-	-	-	-	-	-	-	-								