

JEE MAIN 2 APRIL 2025 SHIFT 2

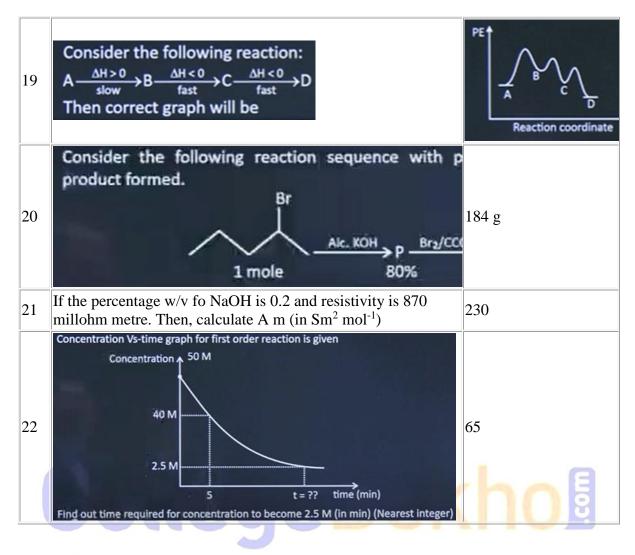
CHEMISTRY QUESTION PAPER WITH ANSWER KEY

Q. No.	Quest	ion	Answers		
1	(A) 1s (B) 1s (C) 1s	ct order of electronegativity $x^2 2s^2 2p^3$ $x^2 2s^2 2p^4$ $x^2 2s^2 2p^5$ $x^2 2s^2 2p^6$	2. $c > b > a > d$		
2		dimethylhex-1-en-4-yne, atoms, respectively are	1. 2, 2, 4		
3		e of compounds TeO ₂ and Tetively.	1. Oxidising and Reducing		
4	of n-p	nent-I : Melting point of neentane. nent-II : Neopentane give oct.	Both S-I and S-II are correct		
5	Sodium nitroprusside test is used for detection of which of the following species in organic compounds				2. S ²⁻
6	atmos H2O i pressu	organic compound is heated phere at 300 K. The volum s 60 ml, if aqueous tension are recorded is 715 mmHg, en in organic compound	13%		
7	Which of the following is the correct order of enthalpy of atomisation of 3d-series?				1. Ni > Cu > Mn > Zn
		tch the reactions given tion given in List-II a			
	A	RX + Na Dry ether	1	List-I Fittig reaction	
8	В	RCOOH — NaOH + CaO △	II	Lucas method	2. A-III, B-IV, C-II, D-I
	С	ROH anhy. Zncl₂ +H₄	III	Wurtz reaction	
	D	CL Na D.E	IV	Soda lime Decarboxylation reaction	



9	In adiabatic process, step & ∞ step follows	$ W_{rev} _{expansion} > W_{ir} $			
10	The four different amino ac Calculate the number of tet four amino acids:	3. 24			
11	Which of the following has atoms and different bond le	3. SF ₄			
12	Which of the following rea	$RCN \xrightarrow{H^+/H_2O}$			
13	Match List-I and List-II and				
	List - I (Pair of Molecules)	List - II (Purification Method)			
	A. Glycerol and spent-lye	I Steam distillation	B. A-III, B-II, C-I, D-		
	B. Water and Aniline	II Fractional distillation			
	C. Petrol and Diesel	III Distillation under reduced pressure			
	D. Aniline and CHCI ₃	IV Distillation			
14	For the reversible react pressure P _T , then	2. If PT increases, then α decreases			
15	The number of unpaired ele [Mn(CN) ₆] ³⁻ , respectively a	3.2 and d^2sp^3			
	Consider the following	8			
16	(A) Value of I gives sha	3. A, B, and D only			
	(B) ψ represent wave				
	(C) Electron density of				
	(D) 2p _x orbital is —				
	The correct statement				
17	Which of the following corneglecting pairing energy (4. [Co(en) ₃] ³⁺			
18	1 M NaCl solution is prepared at 0°C in H ₂ O. Now it is heated, then find correct graph between molarity and temperature				





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