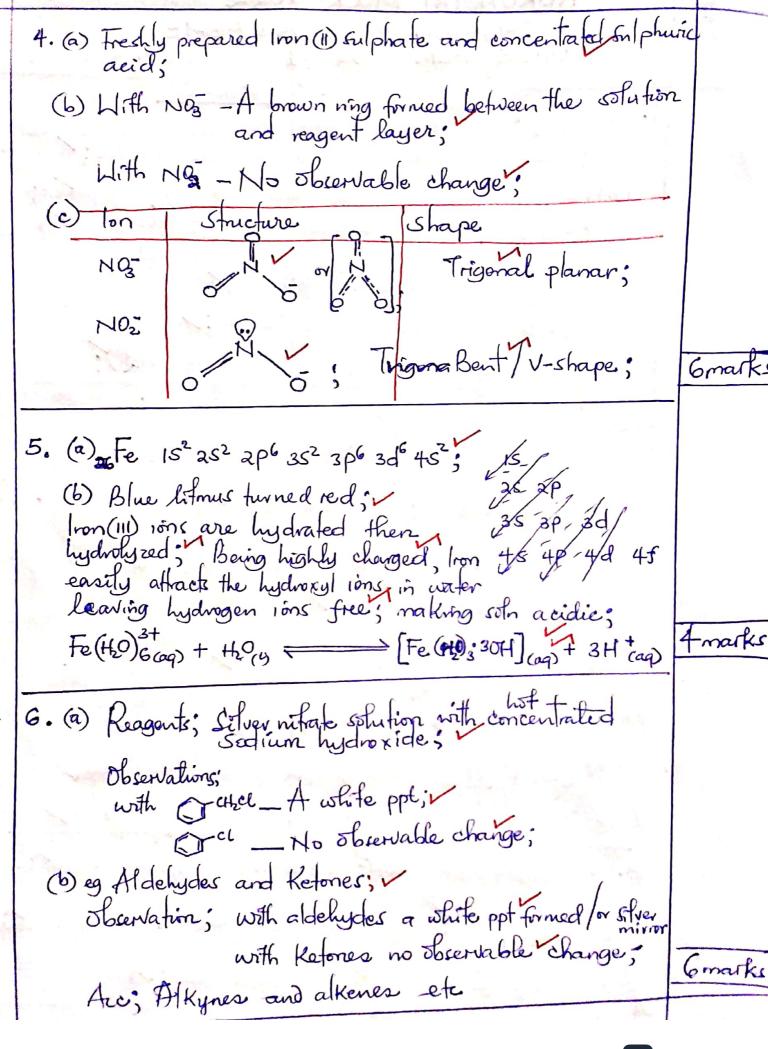
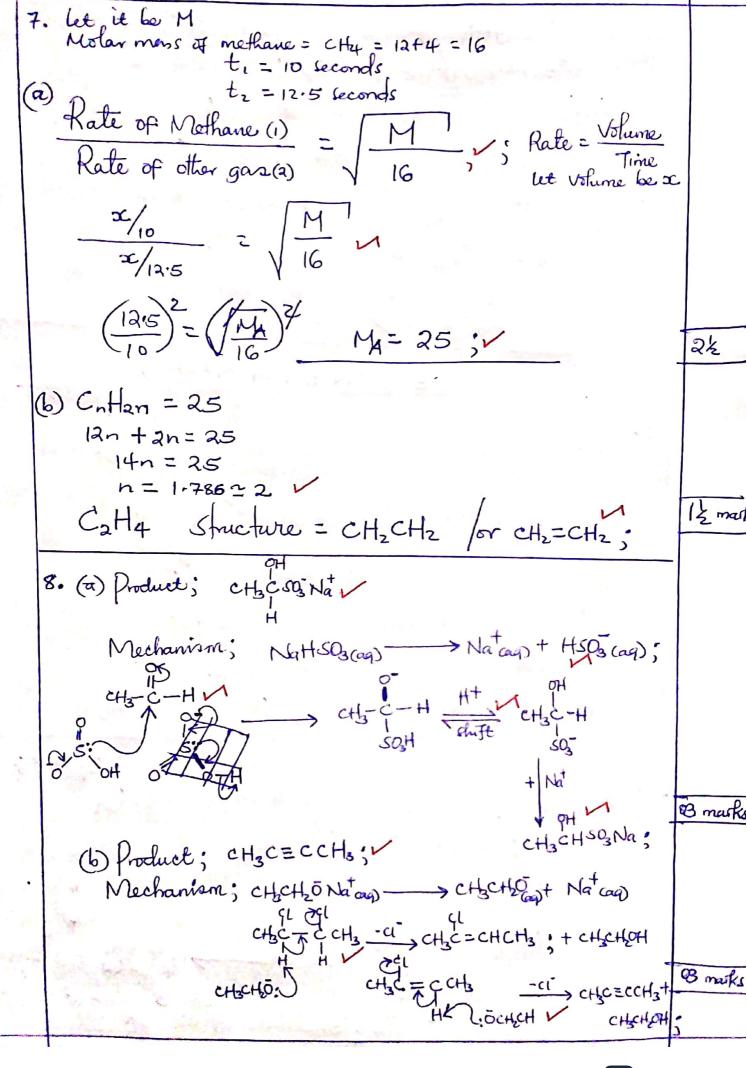
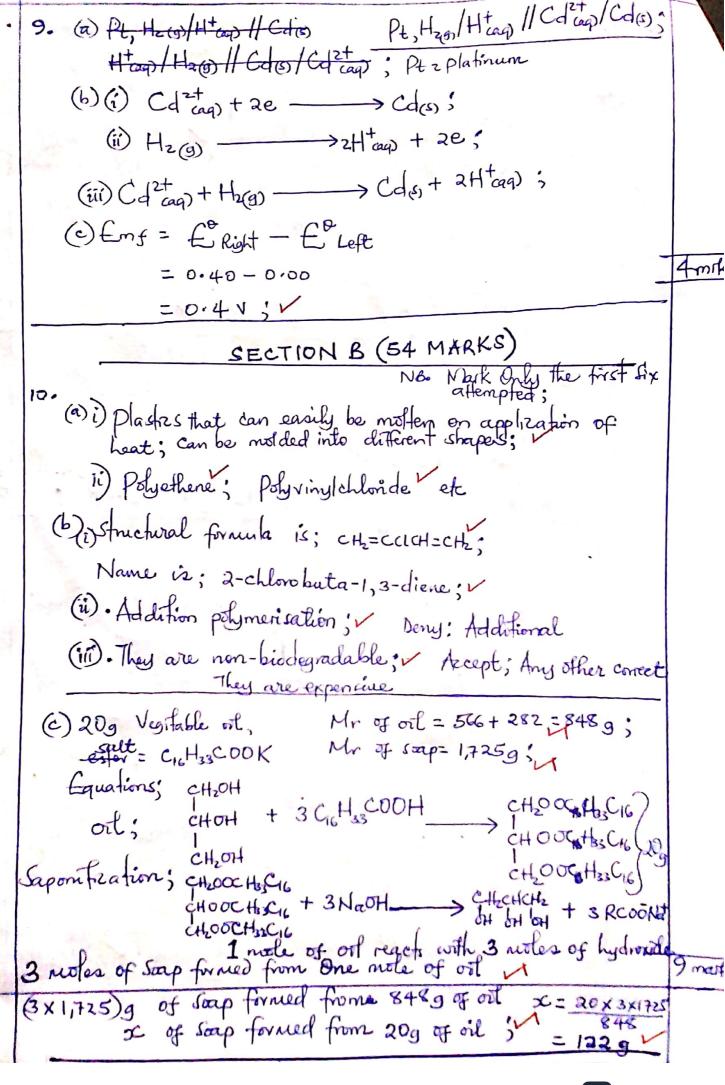
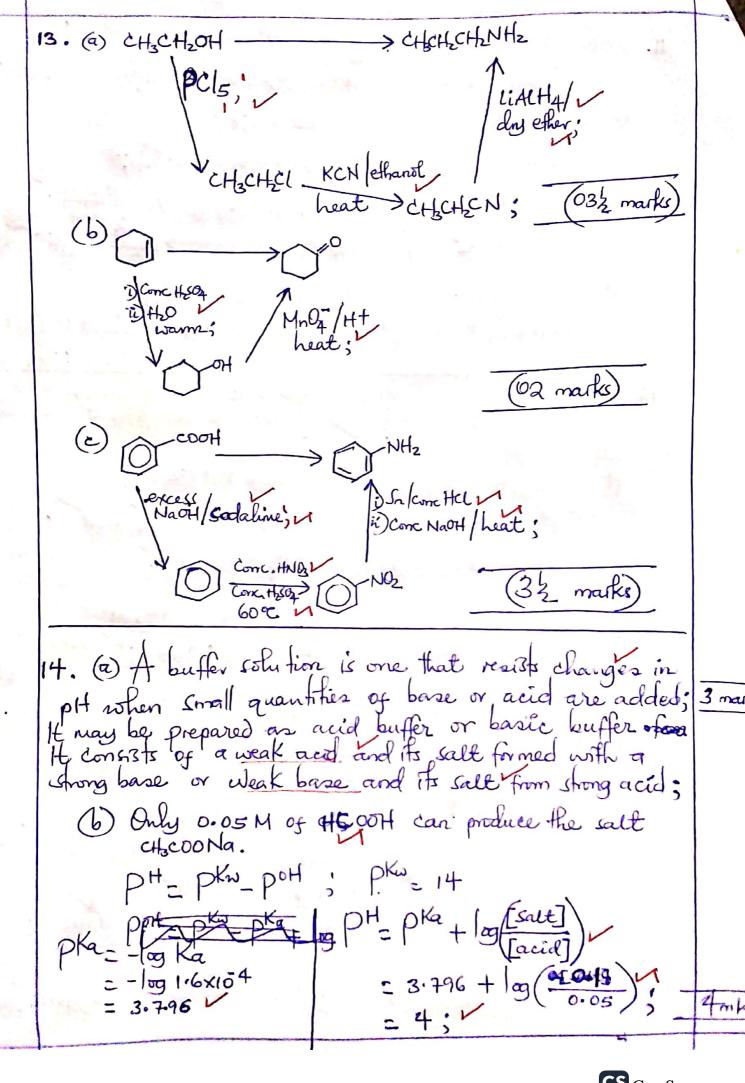
PROPOSED MARKING SCHEME UACE CHEM P 525/1 @ TBN 077958561	
1. (a) An element whose properties are progressive between those of s-block and the p-block elements;	Imark
(b) They have highly charged ions; high polarising powers; They have vacant orbitals to accept lone pairs of electrons;	2 marks
(e) (i) Hydroxypentaqua iron(II) ion;	
(ii) Trichloro he xaaqua chromium (III); (iii) thexacgorro Pofassium hexacyano ferrate(i);	ol marka
2(a) Original amount be x	7
New amount be $x/4$, $t = 40$ minutes	. 14 -
the = 0.693; 7 = Constant;	
From; 2.303 log No = Kt; 2.303 log 4 = 2 40	
7 = 1.3865 40 = 0.03466 ty = 0.693 0.63466 = 19.99 Minutes; V	02 marks
(b) (i) ;H → ie + in ; +e = Postron	
(ii) FLi+ H -> 20; d= Alpha (He)	
(c) Determination of half life of compets felements;	02 mark
3. (a) cHOHCHOHCHOH; 1, 2, 3 tribydroxy propane/propan-1,2,3	mof
(b) CH2CIV Chloromethylbenzene; /Accept= chlorotofuene	5
(c) cH3CH200CH2CH3; Ethyl proparoate; M	Mark

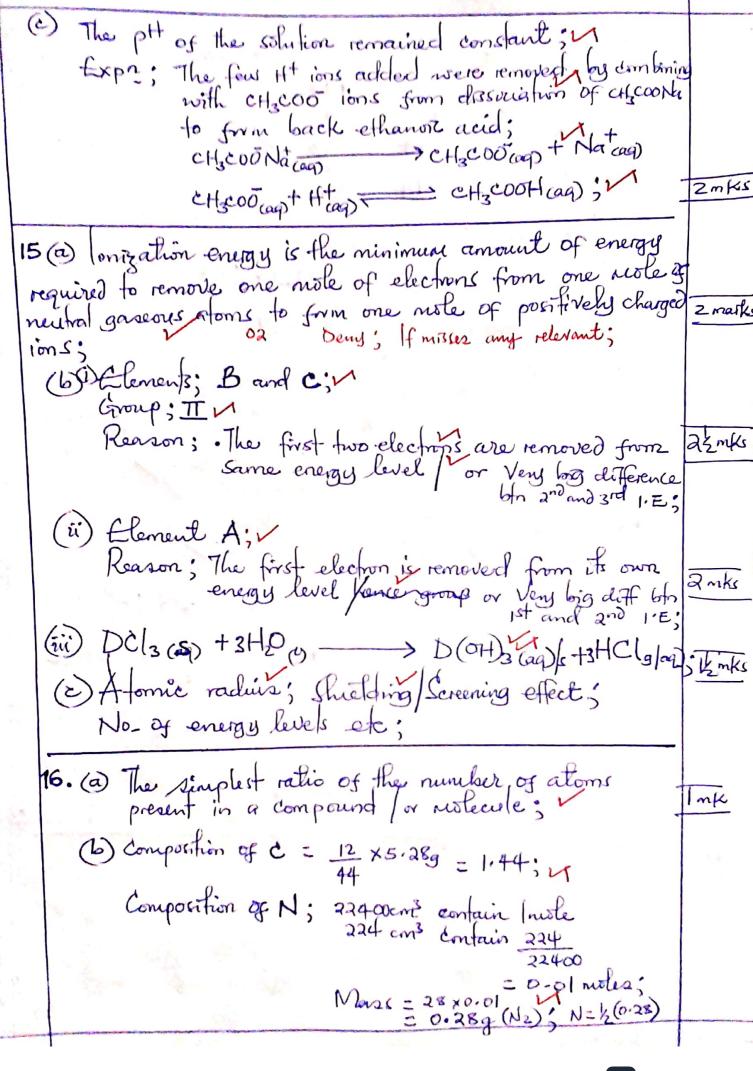
RUKUNGIRI MOCK 2022











Mars of Hydrogen = 1.86-(1.44+028) Clements; & H Compn; 1.44 0.14 14 Moles; 0.12 0.29 0.01 Ratio; 6:7:11 Empirical formular = C6H7N; V (ii) n (emp, f) = Molar mass (M); from PV = nRT; n = mass M = mRT PV; T = 273+184-1 = 457.1 K = 612 × 04831 × 457.1 = 92.56 2 93g n(C6H7N)=93; n(93)=93; 3mar Hence, Molecular formula = Cottan; NHZ OV ON ON CHE CHICANHZ ME HCL V -NH2 NaNOz Come HCL

