

MODERATORS TIPS (XII CHEMISTRY) HSC BOARD EXAM

1) While Solving Numericals:

- (i) Formula should be clearly shown.
- (ii) Units for final answer compulsory.
- (iii) Substitution of numbers in proper formula carries marks.
- (iv) **Logarithmic calculations** wherever required compulsory.
- (v) If you don't get answer, don't cancel the solving part, leave way it is.
(examiner will check whether it is correct or wrong)
- (vi) Solve as many numerical as possible, even including options.
- (vii) Calculate **answers for even intermediate terms**. (like in chemical kinetics numerical, time of reaction is asked while half life is given, intermediate calculations of rate constant is required, its numerical value is required for full credit)
- (viii) Answers to be re-written again with proper units.

2) General:

- (i) All sub-questions answers should be written together i.e. one after other.
- (ii) *Answers should be preferably written in points.*
- (iii) *Diagrams should be preferably drawn with pencil.*
- (iv) **Don't attempt questions like short notes or questions which are very vague in answering or too large in size as priority question.**
- (v) *Uses (answer) should be written specific (should be attempted when properly known)*
- (vi) *General reactions should be supported by proper reaction example.*
- (vii) **Every point carries ½ mark, so if answer is for 2 marks- 4 points required**
If question carries 3 marks – 6 points.

3) Definitions:

- (i) Should include all important aspects of the term (*Definition as in textbook preferable, but NOT Compulsory*).
- (ii) It should be supported by examples or formula (mathematical expression) or units.

4) Derivations:

- (i) They carry stepwise marks.
- (ii) All steps compulsory.
- (iii) Proper statement (conclusions/Laws) necessary.

5) Organic Mechanism:

- (i) All steps compulsory, **correct arrow marks showing transfer of electrons preferable**.
- (ii) Correct explanation required.

- (iii) Correct explanation required on reaction arrows
- (iv) Important words/phrases are compulsory like backside attack, Nucleophilic attack.

6) Organic Reactions:

- (i) Write balanced reactions.
- (ii) Write secondary products also i.e. by-products.
- (iii) If questions asks to find, 'A', 'B' then also, write all the reactions, mention structure of each unknown 'A', 'B' with their names.
- (iv) Structure should be clearly written, no scribble should be done.
- (v) Bonds should shown in proper way (like --OH & not --HO).
- (vi) In conversion reactions, WRITE all steps with conditions.
- (vii) In polymer reaction, repeating unit to be shown.
- (viii) Proper states required like aq. KOH or alc KOH compulsory in organic reactions.

7) Attempting MCQ:

Write answer with proper option required like:
Q.1 (i) Ans: (a), ethanol.

8) Structures:

- (i) Draw all resonating structures required
- (ii) If lone pairs present, should be clearly shown
- (iii) hybridisation, bond lengths & bond angles should be mentioned.
- (iv) hybridisation box diagrams required when question carries 2 or more marks.
- (v) structure outline preferably required which indicates that structure is tetrahedral or square bipyramidal.

9) Diagrams:

- (i) Propionate diagram to be drawn by pencil.
- (ii) Detailed labelling with pencil required.
- (iii) **compulsorily draw government textbook diagrams**

10) Laws:

- (i) Proper statement
- (ii) Mathematical expression supporting the statement **with their terms to be mentioned**
Like $PV = nRT$ where P = pressure, V = Volume, n = number of moles etc.
- (iii) graph if available.