

## **HERE ARE 10 COMMON ERRORS YOU CAN EASILY AVOID IN YOUR CBSE CLASS 12 PHYSICS PAPER:**

1. The answer length Class 12 CBSE Physics Board exam should be in accordance to the marks provided for the question. A question of 1 mark should not be answered in half a page or a whole page.

2. Even good students at times do not write the formula when doing numericals. However, marks are allotted for the formula itself and not writing the formula will make you lose marks.

3. Students often flip the numerator and denominator in formulae by mistake. This makes sure that the entire working of the numerical problem is incorrect and you get absolutely no marks for the answer.

4. An extremely common mistake students make in the Class 12 CBSE Physics Board exam is in the formula for finding capacitance in series. The formula is:  $1/c = 1/c_1 + 1/c_2$ . However, students commonly write:  $c = 1/c_1 + 1/c_2$

5. In value-based questions, which are generally of 2 marks, students tend to write only one sentence. They ought to write 3-4 sentences in order to get full marks.

6. For questions where diagrams are asked for, students should label them properly and preferably, in pencil.

7. In the Class 12 CBSE Physics Board exam, most questions have several parts in it, and each part is allocated some marks. Students often tend to overlook or miss out on a small part of the question, thus losing anything from half a mark to 3 marks for the same.

8. In questions of 1 mark which are asking for a "yes" or "no" answer, students should write the reason for the "yes" or "no" as well in order to get full marks. Most of the time, such questions are allocated a half mark each for the two parts of the answer.

9. Students should make sure they write the correct question number for the answer they are writing. Any mistake here means they would lose the entire marks even if their answer is correct.

10. Students often re-write certain questions. In that case, they MUST make sure that you strike out the first answer. If that isn't done, CBSE rules ask examiners to accept the first attempt and ignore the second attempt.

## **HERE ARE A FEW TIPS FROM THE EXPERIENCED BOARD EXAMINER TO GET FULL MARKS ON YOUR CLASS 12 CBSE MATHEMATICS PAPER:**

1. For the sums of Matrix Elementary Operation, do not change rows and columns together in the same sum. For row transformation, change only row, and for column transformation, change only column.

2. In the Determinant sums, to get full marks, students must use the properties of determinant.

3. For sums of Indefinite Integral, students must write the constant of integration.

4. For Linear Programming problems, proper shading of the feasible region is very important. If the region is unbounded, don't forget to draw the kink line.

5. In the sums of Vector Algebra and 3D-Geometry, do not forget to give vector sign.

6. In 1-mark questions, always try to write the correct answer of the sum. If steps are correct and answer is wrong, step marking or point marking becomes very difficult.

7. Students often forget to write this when solving such problems in their Class 12 CBSE

Mathematics paper:

The image shows a handwritten mathematical derivation. At the top, it states  $x = a \cos \theta + b \sin \theta$ . Below that, it says "Find  $\frac{d^2y}{dx^2}$ ". The main derivation is  $\frac{d^2y}{dx^2} = \frac{d}{d\theta} \left( \frac{dy}{dx} \right) \frac{d\theta}{dx}$ . The term  $\frac{d\theta}{dx}$  is circled in red, with an arrow pointing to it from the right.

8. In such questions, remember not to take log on both sides!

The image shows a handwritten equation  $y = x^2 + (\sin x)^{\cos x}$ . Below it, there is a red stamp that says "NOTE" and the text  $\log(n+v) \neq \log n + \log v$ , which is underlined in red.

So, keep your fingers crossed and keep practicing your sample papers and previous years' papers! If your preparation is up to the mark, these tips will ensure you can get a full 100 per cent in your CBSE Maths paper!

### HERE ARE 9 COMMON MISTAKES SHARED BY HER WHICH CAN HELP YOU GET CLOSE TO GETTING 100 PER CENT IN THE CBSE CLASS 12 BIOLOGY BOARD EXAM:

#### 1. Not utilizing the reading time fruitfully

- Fifteen minutes is enough time to read the CBSE Class 12 Biology question-paper thoroughly and plan out strategies to frame answers in the best possible way
- Also, concentrated reading will result in vivid scrutiny of all the part questions or sub-questions of a long question and thereby minimize errors and question drops.

#### 2. Writing in paragraph form

- Students should abstain from writing in paragraph form. Answers should always be written in point-wise manner in the CBSE Class 12 Biology Board exam, using bullets or arrows
- Also, students should underline/highlight the important terms used, thereby facilitating the examiner to evaluate in a better manner and fairly
- Long answers should be preferably written in schematic or flowchart form.

#### 3. Avoiding pictorial/diagrammatic illustrations

- CBSE Biology and the subject of Bio-science prefers the use of diagrams at various levels. 2-mark, 3-mark and 5-mark questions should be accompanied by diagrams wherever possible as CBSE gives importance to diagrams
- Diagrams have to be labeled. Students should preferably use pencil for drawing and labeling. Labels should all be on the right side of the diagram

#### 4. Forgetting to cite examples

The NCERT book has several examples of types, patterns, flora and fauna for CBSE Class 12 Biology. While answering, those examples need to be given as the marking scheme has marks allotted for the same.

#### 5. Tendency of writing more than required

- CBSE puts a lot of stress on writing to the point and not exceeding word limit
- If two marks are allotted, only two points have to be mentioned

- Writing excess in the Class 12 Biology Board exam will not only result in loss of time but might also lead to the deduction of marks awarded to the answer

#### **6. Haphazard pattern of answering**

Writing answers serially is the ideal approach. However, many students tend to jump from one section to another, without completing that particular section. This can irritate the examiner leading to improper marking.

#### **7. Tendency of writing till the stroke of the bell**

- A combined effect of excess writing, stress, and fear leads to improper time management
- By writing until the end of the Board exam, the student fails to conserve time for revision or for pondering on HOTS questions.

#### **8. Improper detailing of value-based questions**

- Just stating facts in this section is not justified for the CBSE Class 12 Biology Board exam
- Answers to such questions need to have a touch of life skills or values.

#### **9. Neglecting NCERT text material**

- Students have a tendency to avoid details and examples of the NCERT book and prefer citing information from reference books. Little do they know that the marking scheme sent by the board is 100 per cent based on NCERT, and Board examiners have to adhere to the marking scheme while correcting Board papers
- Thorough reading of the NCERT is mandatory to succeed in CBSE Biology Board exam.

### **HERE ARE A FEW CRUCIAL TIPS FROM THE BOARD EXAMINER THAT WILL HELP YOU SCORE OVER 90 IN YOUR ENGLISH PAPER:**

1. Plan before leaving home which section (A/B/C) you are going to attempt first in the exam and how much time you will allow to each section.

2. Do not exceed the word limit. Unnecessarily long answers will NOT FETCH you more marks. On the other hand, it will cut into your limited time.

3. Underline the value points - important words and phrases - while writing the answer itself as you might not have time later on to go back and read through line by line again.

4. Do not leave out any question. If you are not sure of the answer, leave some space according to the allotted marks and come back to it later on. Do NOT leave it out.

5. For section B Writing section, the following points must be noted: (a) Formats must be followed as prescribed by CBSE (b) Break your text into paragraphs wherever needed - in letters, articles, reports, debates and speeches (c) Select the question to answer wisely when you have options in a question (d) Be careful when you are writing the dates in letters (e) In Note Making, the title, subheadings and the abbreviations must be written properly to score marks (f) You need a minimum of four abbreviations in Note Making, for which 1 mark is allotted, but don't write a full page of abbreviations

6. For section C Literature section, the following points must be noted: (a) Each 3-mark question must have at least two value points (b) Each 6-mark question must have at least four value points (c) 'The Invisible Man' MUST be prepared and will have two questions based on it -- one character based question and one plot-based question

7. Aim to complete your paper in 2 hours 45 minutes so that you have 15 minutes to revise your answers.

## HERE ARE THE COMMON ERRORS YOU CAN EASILY AVOID IN YOUR CBSE CLASS 12

### CHEMISTRY PAPER:

#### PHYSICAL CHEMISTRY

**1. In a numerical,** half mark or 1 mark each is assigned to:

- writing the working formula
- posting data in working formula
- correct numerical value
- proper unit

Common mistakes made are:

- they do not write working formula
- they do not post data in working formula
- calculation error
- they do not check compatibility of all units, i.e. all units of each data should be either in SI or CGS units

**2. All laws** should be written as it was stated. Students reframe the statement or only write the mathematical expression. Please note marks are allotted to the statement of law only.

**3. While plotting a graph,** both the independent and dependent variables must be written. Students often plot the graph and do not write the variables. Be cautious.

**4. Reason based questions** must be answered in two points: (i) cause (ii) consequence. Though these questions carry one mark each, two key points are expected from students. Most of the time students write only one point.

#### INORGANIC CHEMISTRY

Common mistakes in the four key areas from which questions are set:

##### 1. Structures

- lone pair of electrons, if present, are not shown
- if structure/geometry of a molecule is asked, students only draw it and do not write it
- when asked to draw the structure of molecule, students only write it, and do not draw

##### 2. Equations

- Balancing equations is a MUST
- Often, if the question is asking about the observation of a reaction then students mistakenly write the equation and vice versa

**3. Reason based questions:** Same errors as in physical chemistry. If the consequence is due to a phenomenon such as Lanthanide contraction, or inert pair effect, these terms must be mentioned.

**4. Principle involved in a process:** Students often write the process or steps involved but do not mention the principle behind the process.

#### ORGANIC CHEMISTRY

##### 1. IUPAC nomenclature:

- Students commonly make mistakes in writing the suffix, for instance --ol should not look like -al
- Another mistake made is in identifying the substituted alkyl group

##### 2. Distinction between pair of organic compounds:

- Correct reagent needs to be written with corresponding observation. Mistake lies in writing the name of the test like iodoform test and not writing the reagent i.e. NaOH and I<sub>2</sub>
- Another common mistake is not writing which compound is responding to the test though the observation is given

**3. Equation/name reaction:** Answer must correspond to the question; you need to check whether name or structure/formula is asked for in the question.

**4. Conversion:** Reagents involved in each step must be shown.

##### 5. Mechanism:

- Arrows showing the electron transfer must be shown
- Type of reaction involved must be written (eg: nucleophilic substitution)

**6. Reason based answers** must include two key points, i.e. cause and consequence.

Finally like in all subjects, word limit must be maintained. Key words should be highlighted. Try to solve the entire paper first rather than putting too much time in solving one question; time management is important.