**RUBRIC: SSC II PHYSICS L**

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| **Q#/Part#** | **Rubric Name** | **Rubric Type1 (Marks)** | **Rubric Type 2(Marks)** | **Rubric Type 3 (Marks)** | **Rubric Type 4 (Marks)** | **Rubric Type 5 (Marks)** |
| 2(i) | Explanation | Correct explanation (2) | Partially Correct explanation (1) | Only correct definition (0.5) | Wrong (0) |  |
| Diagram | Correct labeled diagram (1) | Correct diagram without labels (0.5) | Wrong (0) |  |  |
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| 2(ii) | Differences | Difference between pitch and quality of sound (2) | Partially correct (1) | Wrong (0) |  |  |
| Graphs | Two graphs showing low and high pitch (1) | One graph either showing low or high pitch (0.5) | Wrong (0) |  |  |
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| 2(iii) | Data | Extraction of correct data with units (1) | Incomplete data (0.5) | Wrong (0) |  | Wrong (0) |
| Calculations | Correct calculation with units (2) | Partially correct calculation (1) | Wrong (0) |  |  |
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| 2(iv) | Definition of short sightedness | Correct definition (1) | Partially correct definition/only diagram drawn (0.5) | Wrong (0) |  |  |
| Measure for Correction | Well explained measure for correction (2) | Partially explained measure for correction/only diagram (1) | Wrong (0) |  |  |
| 2(v) | Data | Extraction of correct data with units (1) | Incomplete data (0.5) | Wrong (0) |  |  |
| Calculations | Correct calculation with units (2) | Partially correct calculation (1) | Wrong (0) |  |  |
| 2(vi) | Construction | Complete Construction details i.e. golden foil and disc etc (2) | Partial Construction (1) | Wrong (0) |  |  |
| Diagram | Correct labeled diagram (1) | Partially Correct diagram (0.5) | Wrong (0) |  |  |
| 2(vii) | Function of each wire | correct functions three wires(3) | correct functions any two wires(2) | correct function of any one wire (1) | Wrong (0) |  |
| 2(viii) | Working Principle of transformer | Correct working principle i.e. phenomenon of mutual induction/electromagnetic induction (1) | Partially Correct working principle (0.5) | Wrong (0) |  |  |
| Reason of Use in AC circuits | Correct reason i.e. can step up or step down AC voltage only (1) | Partially correct reason (0.5) | Wrong (0) |  |  |
| Ideal transformer | Correct definition i.e. in which output power = input power/efficiency is 100% (1) | Partially Correct definition (0.5) | Wrong (0) |  |  |
| 2(ix) | Discussion of NOT operation | Correct discussion i.e. explaining with simple circuit (lamp, switch etc) or with truth table, logic equation or symbol etc (2) | Partially correct (1) | Any key words (0.5) | Wrong (0) |  |
| NOT gate as inverter | Correct reason i.e. circuit inverting the input or any other correct (1) | Partially correct reason (0.5) | Wrong (0) |  |  |
| 2(x) | Direction (upward) | Correct direction with figure (1.5) | Correct direction without figure (1) | Only correct figure (0.5) | Wrong (0) |  |
| Direction (downward) | Correct direction with figure (1.5) | Correct direction without figure (1) | Only correct figure (0.5) | Wrong (0) | Wrong (0) |
| 2(xi) | Fax machine | Complete description of its working (3) | Partial description of its working (2) | Any key words (1) | Wrong (0) |  |
| 2(xii) | Description with the help of example | Complete description of Nuclear Fusion with the help of example (3) | Partial description of Nuclear Fusion with the help of example (2) | Partial description or example or definition (1) | Wrong (0) |  |
| 2(xiii) | Focal Length | Correct calculation (1) | Partially Correct (0.5) | Wrong (0) |  |  |
| Image distance | Correct calculation (1) | Partially Correct (0.5) | Wrong (0) |  |  |
| Nature of image | Correct answer i.e. inverted (1) | Wrong (0) |  |  |  |
| 2(xiv) | Calculation | Correct calculation (3) | Partially correct calculation (2) | only answer (1) | Wrong (0) |  |
| 2(xv) | Explanation | Correct i.e. definition, formula/short description (2) | Partially Correct i.e. definition, or formula/short description (1) | Any key word (0.5) | Wrong (0) |  |
| Unit | Correct (1) | Wrong (0) |  |  |  |
| 3a | Definition | Correct definition (1) | Partially Correct definition (0.5) | Wrong (0) |  |  |
| Unit | Correct Unit (1) | Wrong (0) |  |  |  |
| Factors with explanation | Four Correct factors (4) | Any Three Correct factors (3) | Any Two correct factors (2) | Any One correct factor (1) | Wrong (0) |
| 3b | Data | Extraction of correct data with units (1) | Incomplete data (0.5) | Wrong (0) |  |  |
| Calculations | Correct calculation with units (3) | Partially correct calculation (2) | Correct answer without calculation (1) | Wrong (0) |  |
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| 4a | Alpha decay explanation with example | Correct explanation and example (2) | Correct explanation or example (1) | Any key word (0.5) | Wrong (0) |  |
| Beta β decay explanation with example | Correct explanation and example (2) | Correct explanation or example (1) | Any key word (0.5) | Wrong (0) |  |
| Gamma decay explanation with example | Correct explanation and example (2) | Correct explanation or example (1) | Any key word (0.5) | Wrong (0) |  |
| 4b | Data | Extraction of correct data (1) | Partially correct data (0.5) | wrong (0) |  |  |
| Calculation of equivalent resistance | Correct calculation with units (1) | Partially correct calculation (0.5) | Wrong (0) |  | Irrelevant/wrong answer (0) |
| Calculation of current through each resistor | Correct calculation with units (1) | Partially correct calculation (0.5) | Wrong (0) |  |  |
| Calculation of total current | Correct calculation with units (1) | Partially correct calculation (0.5) | Wrong (0) |  |  |
| 5a | List of basic elements | Mentioning any four Correct elements (2) | Any three/two Correct (1) | Only one Correct (0.5) | Wrong (0) |  |
| Function | Any four correct function (4) | Any three correct function (3) | Any two correct function (2) | Any one correct function/correct labeled diagram (1) | Wrong (0) |
| 5b | Data | Extraction of correct data (1) | Partially correct data (0.5) | Wrong (0) |  | Irrelevant/wrong answer (0) |
| Calculation of frequency | Correct calculation with units (1) | Partially correct calculation (0.5) | Wrong (0) |  |  |
|  | Calculation of time period | Correct calculation with units (1) | Partially correct calculation (0.5) | Wrong (0) |  |  |
|  | Calculation of wave speed | Correct calculation with units (1) | Partially correct calculation (0.5) | Wrong (0) |  |  |