Component Name: RedTable.vue

1. Template Structure:

```
<table>
  <thead>
    <tr>
      <th class="category-col"></th> <!-- Empty column for category row merging -->
      <th class="subject-col">Subject</th>
      <th class="questions-col">Total Questions</th>
      <th class="marks-col">Total Marks</th>
      <th class="duration-col">Duration</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td rowspan="2">Language (Qualifying)</td>
      <td>Part - 1 English</td>
      <td>25</td>
      <td>25</td>
```

```html
    <td rowspan="2">2hr</td>
  </tr>
  <tr>
   <td>Part - 2 Hindi / Urdu / Bengali</td>
   <td>75</td>
   <td>75</td>
  </tr>
  <tr>
   <td rowspan="2">Subject And General Studies</td>
   <td>Part - 1 Concerned Subject</td>
   <td>80</td>
   <td>80</td>
   <td rowspan="2">2hr</td>
  </tr>
  <tr>
   <td>Part - 2 General Studies</td>
   <td>40</td>
   <td>40</td>
  </tr>
</tbody>
<tfoot>
  <tr>
   <td colspan="2"><strong>Total</strong></td>
   <td><strong>220</strong></td>
```

```html
    <td><strong>220</strong></td>

    <td></td>

  </tr>

 </tfoot>

</table>
```

Explaination:

- **Table Container :**

  - Wraps the table for styling and responsiveness.

- **Table Header :**

  - Defines the column titles.

- **Table Body :**

  - Contains exam details in a structured format.

- **Table Footer :**

  - Displays the total number of questions and marks**.**

  - Uses `rowspan="2"` to merge duration and category rows for better readability.

  - Total row (`tfoot`) summarizes total questions and marks.

2. Script Section:

```html
 <script>

 export default {

  data() {
```

```
    return {};

  }

};

</script>
```

Explaination:

- **export default:**
  - ➢ This exports the component, making it reusable in other parts of the application.

- **data() Function:**

  - ➢ Returns an empty object ({ }) for now.

  - ➢ Can be used to store ad manage dynamic data in the future.

3. **Styling Code:**

```css
.table-container {

  width: 90%;

  max-width: 1200px;

  height: 600px; /* Original height */

  margin: 30px auto;

  overflow-x: auto; /* Enable horizontal scrolling */

}
/* Table styling */

table {
```

```css
  width: 100%;

  border-collapse: collapse;

  text-align: center;

  background: white;

  box-shadow: 0px 4px 10px rgba(0, 0, 0, 0.1);

  border-radius: 8px;

  table-layout: fixed;

  height: 90%;   }
/* Column width adjustments */
.category-col {

  width: 45%;

}
.subject-col {

  width: 50%;

  text-align: left;

}
.questions-col {

  width: 20%;

}
.marks-col {

  width: 20%;
```

```css
}

.duration-col {

  width: 15%; /* Reduced width */

}

/* Header styling */

th {

  background-color: #f54254;

  color: white;

  padding: 18px;

  font-size: 17px;

  font-weight: bold;

}

/* Table cell styling */

td {

  border: 1px solid #000;

  padding: 14px;

  font-size: 18px;

  font-weight: bold;

  height: 60px;

  vertical-align: middle;

  word-wrap: break-word; /* Allow text to break and wrap in the cell */
```

```
    overflow-wrap: break-word; /* Ensure long words break */

 }

 /* Footer (Total row) */

 tfoot td {

   font-weight: bold;

   background-color: #fff;

 }
```

Explaination:

- **`table-container:`**
  - ➢ Sets the width and maximum width of the container.
  - ➢ Adds a fixed height to the container.

- **`table:`**
  - ➢ Removes cell spacing and borders for a cleaner look.
  - ➢ Centers the text within table cells.

  - ➢ Adds a background color and box shadow for visual appeal.

- **Column Width Adjustments:**
  - ➢ Adjusts the width of the `duration-col` to 15% for better visual balance.

- **Header Styling:**
  - ➢ Styles the table header (`th`) with a background color, text color, padding, font size, and font weight.

- **Cell Styling:**

  - Sets a fixed height for cells to ensure consistent row heights.

  - Enables word wrapping for better readability.

- **Footer Styling:**

  - Styles the footer row (if present) with a different background color.

4. **Responsive Styling:**

```
@media (max-width: 768px) {

 .table-container {

  width: 93%; /* Full width for mobile */

  height: auto; /* Allow height to adjust */

  margin: 10px; /* Reduced margin */

  overflow-x: auto; /* Allow horizontal scrolling if needed */

 }

 table {

  font-size: 10px; /* Reduce font size for mobile */

 }

 th, td {

  padding: 6px; /* Reduce padding */

  font-size: 12px; /* Make font size smaller */

 }
```

.category-col,

.subject-col,

.questions-col,

.marks-col,

.duration-col {

  width: auto; /* Allow columns to adjust */

}

.table-container table {

  max-height: 350px; /* Reduce max height */

}

}

Explaination:

- **@media (max-width: 768px**):

  - ➢ This line defines a media query, which applies the following CSS rules only when the screen width is 768 pixels or less. This effectively targets smaller screens like tablets and mobile phones.