**how are the grades for board exams (SSC&HSC) calculated**

In Bangladesh, the Grade Point Average (GPA) system is used to determine the results of the Secondary School Certificate (SSC) and Higher Secondary Certificate (HSC) board exams. Letter grades (A+, A, etc.) given to each subject marks serve as the basis for the computation.

### ****1. Grading System****

The grades for SSC and HSC are assigned according to the following table:

| **Marks Range (%)** | **Letter Grade** | **Grade Point (GP)** |
| --- | --- | --- |
| 80-100 | A+ | 5.0 |
| 70-79 | A | 4.0 |
| 60-69 | A- | 3.5 |
| 50-59 | B | 3.0 |
| 40-49 | C | 2.0 |
| 33-39 | D | 1.0 |
| Below 33 | F (Fail) | 0.0 |

### ****2. Subject-Wise Grade Calculation****

For each subject:

1. The total marks are calculated based on the combined scores from **written exams**, **practical exams**, and **oral exams (if applicable)**.
2. The percentage of total marks determines the **Letter Grade (LG)** and corresponding **Grade Point (GP)**.

### ****3. Calculating GPA****

The overall GPA is calculated by averaging the **Grade Points** of all subjects, using the following steps:

Step 1: Add up the Grade Points for all subjects.

* For example, if a student takes 7 subjects and scores the following:
  + Bangla: A+ (GP = 5.0)
  + English: A (GP = 4.0)
  + Math: A+ (GP = 5.0)
  + Physics: A (GP = 4.0)
  + Chemistry: A- (GP = 3.5)
  + Biology: B (GP = 3.0)
  + ICT: A+ (GP = 5.0)

The total grade points = 5.0+4.0+5.0+4.0+3.5+3.0+5.0=29.55.0 + 4.0 + 5.0 + 4.0 + 3.5 + 3.0 + 5.0 = 29.55.0+4.0+5.0+4.0+3.5+3.0+5.0=29.5.

**Step 2: Divide the total Grade Points by the number of subjects.**

GPA=Total Grade PointsNumber of Subjects\text{GPA} = \frac{\text{Total Grade Points}}{\text{Number of Subjects}}GPA=Number of SubjectsTotal Grade Points​

In this case:

GPA=29.57=4.21\text{GPA} = \frac{29.5}{7} = 4.21GPA=729.5​=4.21

Notes:

**Optional Subjects (4th subject)**:

If the student has an optional subject (e.g., higher mathematics), its grade point is included **only if it benefits the student**.

The additional grade point (above 2.0) is added to the total GPA without counting the subject in the divisor.

**Example with Optional Subject:**

Optional subject GP = 5.0 (A+).

After deducting 2.0 (base GP for optional subjects), the extra 5.0−2.0=3.05.0 - 2.0 = 3.05.0−2.0=3.0 is added to the total GPA.

### ****4. Special Cases****

**Failing in Any Subject**:

If a student fails (scores below 33%) in one or more subjects, the overall GPA is 0.0, regardless of grades in other subjects.

**SSC and HSC Combined GPA**:

For university admissions, some institutions calculate a combined GPA by adding the GPAs of SSC and HSC results or using a weighted system.

**Example Calculation**

Imagine a student has the following grades:

| **Subject** | **Marks (%)** | **Letter Grade** | **Grade Point** |
| --- | --- | --- | --- |
| Bangla | 85 | A+ | 5.0 |
| English | 75 | A | 4.0 |
| Mathematics | 90 | A+ | 5.0 |
| Physics | 70 | A | 4.0 |
| Chemistry | 65 | A- | 3.5 |
| Biology | 55 | B | 3.0 |
| ICT (Optional) | 88 | A+ | 5.0 |

1. Total Grade Points (without optional) = 5.0+4.0+5.0+4.0+3.5+3.0=24.55.0 + 4.0 + 5.0 + 4.0 + 3.5 + 3.0 = 24.55.0+4.0+5.0+4.0+3.5+3.0=24.5.
2. GPA = 24.56=4.08\frac{24.5}{6} = 4.08624.5​=4.08 (before adding optional).
3. Adding optional bonus = 4.08+(5.0−2.0)=4.08+3.0=4.384.08 + (5.0 - 2.0) = 4.08 + 3.0 = 4.384.08+(5.0−2.0)=4.08+3.0=4.38.

**Final GPA = 4.38.**