

**NAWA PRAVAT SCHOOL**  
**Galkot Municipality-3, Hatiya, Baglung**

**Grade 11 Computer Science Internal Assignment - Part I**

**Full Marks:** 36

**Time:** As per teacher's instruction

**Subject:** Computer Science (Grade XI)

***Instructions***

***Please read the below instructions carefully before proceeding further:***

- Learners are instructed to download the IA Question Paper, prepare the answers (Soft Copy), and submit them before the deadline.
- **Assignment submissions are accepted only in .pdf format.**
- Assignments must be **typed** and **formatted** as per the following specifications:
  - Page Margin – 1 inch on all sides
  - Page Orientation – Portrait
  - Page Size – A4
  - Font Family - Times New Roman
  - Font size - 12
  - Alignment - Justified.
- The total page limit shall not exceed 8 pages.
- **Answers for 6 marks questions should be approximately 300-400 words and not more than 150-200 words for 3 marks questions.**
- Only ONE submission is allowed per assignment.
- Please restrict the assignment document size to <2 MB. Avoid inserting images of very high resolution into the document to remain within the size limit. The assignment response document should NOT contain color images or highlighting of text content.
- If the learner resubmits the assignment, it is permissible only on or before the cut-off date, and the last submission will be considered for evaluation purposes.
- **Content that has been directly copied from the Internet and Assignments that have been copied and shared among students will be automatically rejected and disqualified.**

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**Q.1. [6 Marks]**

Define computer system. Explain the major components of a computer system with a neat and labeled block diagram.

*(Hint: Include Input Unit, Output Unit, CPU, Memory Unit, etc.)*

**Q.2. [6 Marks]**

Convert the following numbers as directed:

a)  $(11001101)_2 \rightarrow (?)_{10}$

b)  $(458)_{10} \rightarrow (?)_{16}$

c)  $(3AF)_{16} \rightarrow (?)_2$

d)  $(11011101011)_2 \rightarrow (?)_8$

Also, explain **one real-life application of number systems** in computer science.

**Q.3. [6 Marks]**

What are logic gates? Explain **AND, OR, and NOT** gates with their **symbol, truth table, and Boolean expression**.

Also, write the Boolean expression and draw a logic diagram for the following circuit:

$$Y = A \cdot (B + C)$$

**Q.4. [6 Marks]**

Explain the concept of **flowchart** and its importance in program development.

Draw a flowchart to calculate the **sum of the first 10 natural numbers**.

**Q.5. [6 Marks]**

Write a short program in **C language** to input three numbers and display the largest among them.

Also, explain the **algorithm** used in your program.

**Q.6. [6 Marks]**

a) Define computer network. Write any **four advantages** of networking.

b) Differentiate between **LAN, MAN, and WAN** with suitable examples.

c) Write the full forms of:

i) IP      ii) URL      iii) HTTP      iv) FTP

**THE END**