

# ITL PUBLIC SCHOOL

## ACTIVE ENGAGEMENT OF YOUNG MINDS DURING SUMMER VACATIONS PROGRAMME

### CLASS-XI HISTORY

#### TASK ONE

Problem Statement: “Fall of the cities”

The context - Mesopotamia managed irrigation, taxes, and trade for 3000 years without computers. If we model their ‘urban algorithm’ using computational thinking, what can smart cities in 2026 learn from Ur and Babylon?”

Textbooks describe ziggurats & Hammurabi, but not how 80,000 people in Ur got water, food, and law without the modern technology that we use today. Can we reverse-engineer their system?

#### 1. DECOMPOSITION –

A) The meaning of decomposition- means breaking a complex problem or system into smaller, more manageable parts. By dividing a large task into bite-sized chunks, each part becomes easier to understand, solve, or manage individually. It is often called the "divide and conquer" approach.

B) Usage in assignment- Mesopotamian cities were a system, so every city’s working can be broken into a sub-system. Please look at the table given below: -

Sub-System	Mesopotamian Evidence	Modern Parallel 2026	Source
A.Irrigation	Canals from Euphrates, shādūf, basin irrigation	Smart irrigation, Jal Jeevan Mission	Archaeological maps, Sumerian tablets

You can similarly include, sub-systems like, Water, Law, Trade etc.

#### 2. PATTERN RECOGNITION

A)The meaning of pattern recognition- the process of identifying similarities, trends, or characteristics within data sets or complex problems to make them easier to solve. It involves spotting recurring elements to categorize information, predict outcomes, and create reusable solutions.

B) Usage in the assignment-Compare the work of bureaucracy then and the work of bureaucracy, now, in your quest to find solutions.

For Example-

- System of rationing, then and now.
- Implementation of laws, then and now.
- Disaster management, then and now.

#### 3) ABSTRACTION-

A) The meaning of abstraction- is the process of filtering out unnecessary details to focus only on the essential characteristics of a problem. It simplifies complex systems by hiding complex, non-essential information, making it easier to solve problems, design algorithms, and create efficient, manageable solutions.

B) Usage in assignment- For example, in the theme given, you have to avoid writing details about the kings and focus on the administration of the cities and the sub-systems that helped it work.

#### 4. ALGORITHM DESIGN –

A) The meaning of algorithmic design-is the process of creating a clear, step-by-step, logical plan to solve a problem or complete a task. It is designed to turn a complex problem into a sequence of instructions that a human or computer can follow to achieve a predictable result.

B) Usage in assignment-For example, you are focussing on the sub-system of drain management and the objective is to learn, the ways in which our cities of today can learn from the premier cities of Mesopotamia and avoid the problem of water-logging that occurs every year.

C) In the above example, the algorithmic design can be: -

Step 1-Drain and street construction-material used and the quality of it.

Step 2-Local administration participation

Step 3-Efficient deployment of action plans in times of emergency

5.Suggest AI based solutions-

a) First solution- to the problems faced by cities of the 21<sup>st</sup> century.

b) Second solution- to any one problem faced by cities of Mesopotamia.

**Note** - The solution should be created/ designed using AI Project Cycle.

6.Final Presentation of assignment-

i) Students can make a project of this work in word document.

OR

ii) Students can make a power point presentation of the assignment.

#### **TASK TWO**

**Compulsory Project of History** has been specified by CBSE. Students will start writing their projects after detailed research and editing. They will do their work related to the project as per the time schedule prepared by their teacher.

#### **IMPORTANT INSTRUCTIONS**

1.For the Compulsory Project students have been given all details, the same needs to be adhered to.

2.Holiday Home work is an essential component of internal assessment, kindly complete it and submit it to your teacher within a week of the school's reopening after summer vacations.