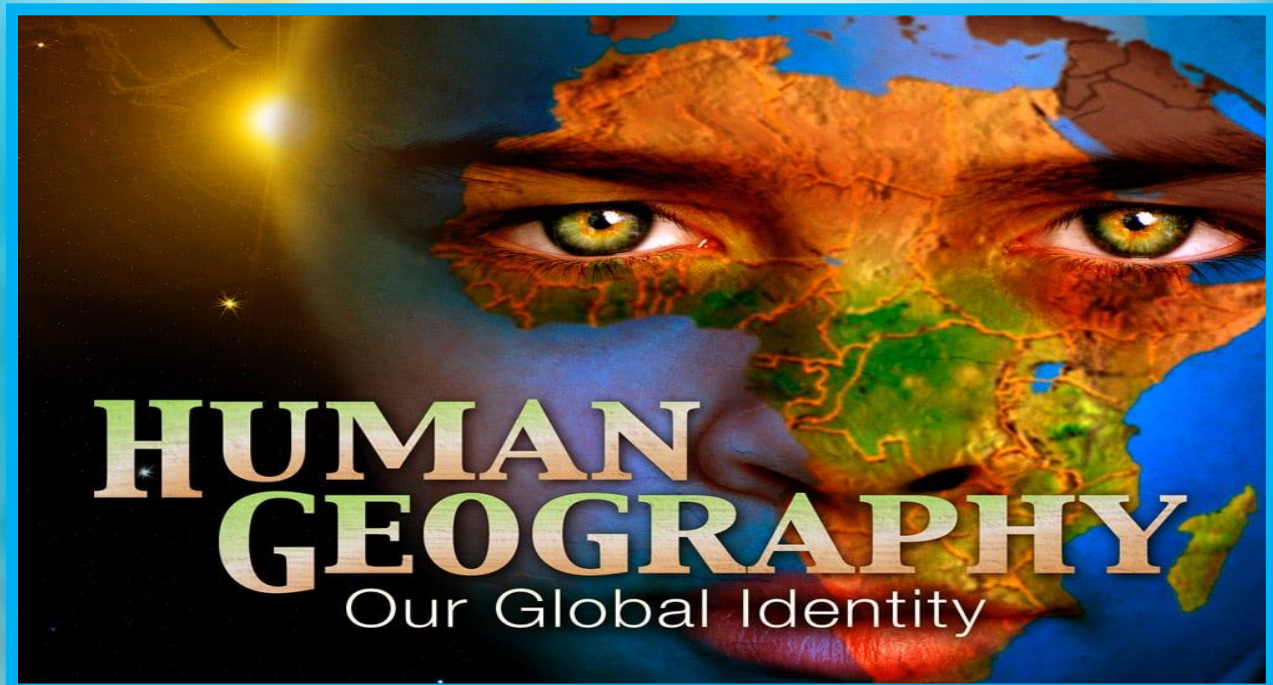




***JAMMU SANSKRITI
SCHOOL JAMMU
(Affiliated to CBSE)***

**FUNDAMENTALS OF HUMAN GEOGRAPHY
(POPULATION AND ITS ELEMENTS)**



**CHAPTER 2:- THE WORLD POPULATION (DISTRIBUTION
DENSITY AND GROWTH)**



12097CH02



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ACKNOWLEDGMENT

Not all professionals do their work by themselves. Although they can be as prolific or as adept in their respective fields, they will still need assistance one way or another. For instance, writing a body of work takes a lot of research. They often depend on their assistants or subordinates to gather information about the subject matter. This Graphic Novel is a highly inspired novel. Over the months, so many things, places and people have inspired the school, and have directly or indirectly led the school in creating this novel. The school articulates the cavernous gratitude to all those who have been an integral part of this graphic novel and have worked with all their heart and soul to accomplish this novel diligently and with deep insight. The challenges were many but who cares when warriors ahead audaciously. The school wants to pay heartwarming congratulation to GRAPHIC NOVEL TEAM.

S.NO	TASK	BY
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DISCLAIMER

The content of this graphic novel “HUMAN POPULATION” is generated after multifarious consultations and is meant for informational purposes only.

***Printed and published by JAMMU SANSKRITI
SCHOOL, JAMMU***

PREFACE

This is a step ahead in teaching - learning process. This novel comprises of detailed description of Human Geography in India. It describes the detailed and elaborative elements of human population like migration in a very captivating way. The learners will be able to comprehend and analyze the important elements and the concept of human geography. They will also be apprised about the multifarious concepts related to this that they have studies in economics of previous classes. Besides this, the caricatures of characters in this novel are depicting the real life characters which will stimulate the learners to read it and understand it as well without considering it a burden of Social Studies.

LEARNING OUTCOMES

- + The learners will be able to remember the definition of different aspects of population.***
- + The learners will understand the demographic structures and various indicators of it.***
- + The learners will remember the information about population changing chronology and its application in real world.***
- + The learners will be able to analyze the population growth and the process of population change throughout different phases.***
- + The learners will be acquainted with the concept of distribution and the size of the population.***
- + The learners will be able to apply the information about world population in real life situations.***
- + The learners will be able to analyze population dynamics and migration.***
- + The learners will be able to evaluate the consequences of population differentiation.***

STORY BOARD

HUMAN GEOGRAPHY

THE WORLD POPULATION

(DISTRIBUTION, DENSITY AND GROWTH)

**INTRODUCTION TO
THE CONCEPT OF
POPULATION AND
REGIONAL
DIFFERENCES
BETWEEN
POPULATION.**

**CHANGE IN
THE PATTERN
OF
POPULATION.**

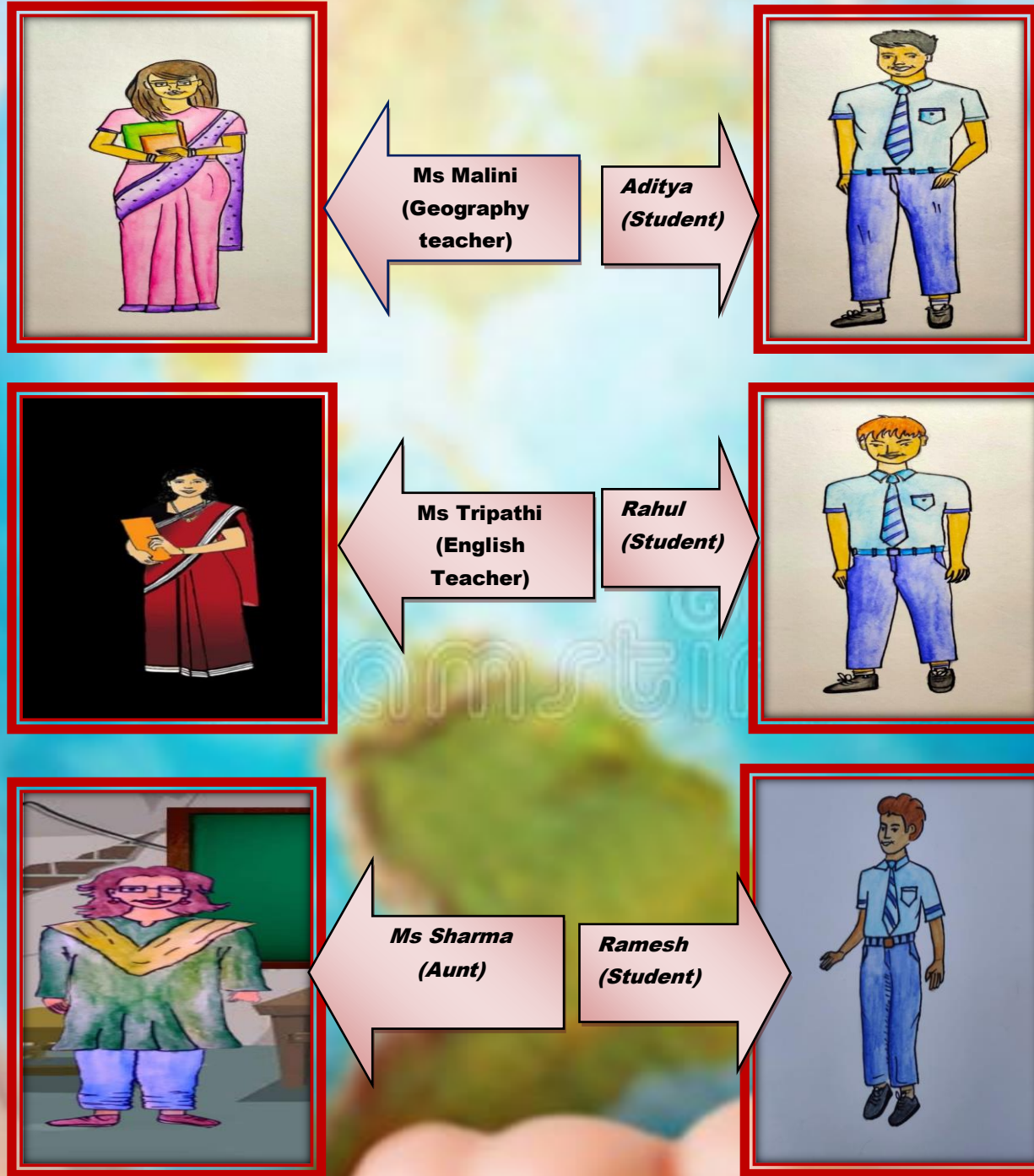
**COMPONENTS
OF POPULATION
CHANGE AND
MIGRATION,
SLUMS AND
RELATED
ISSUES.**

**FACTORS
AFFECTING
POPULATION
DISTRIBUTION.**

**POPULATION
EXPLOSION AND
ITS
CONSEQUENCES.**

**DEMOGRAPHIC
TRANSITION.**

CHARACTERS





**Suresh
(Student)**



**Neetu 's
Mother**



**Neetu
(Student)**



**Neetu 's
Father**

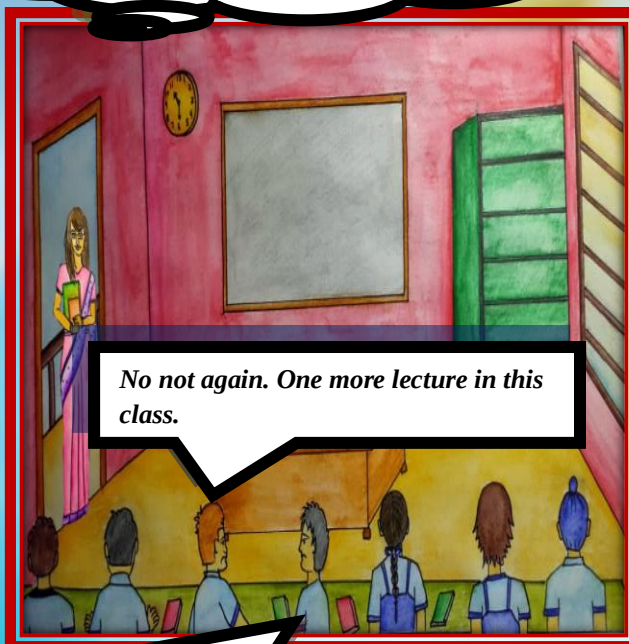


**Pratibha
(Student)**



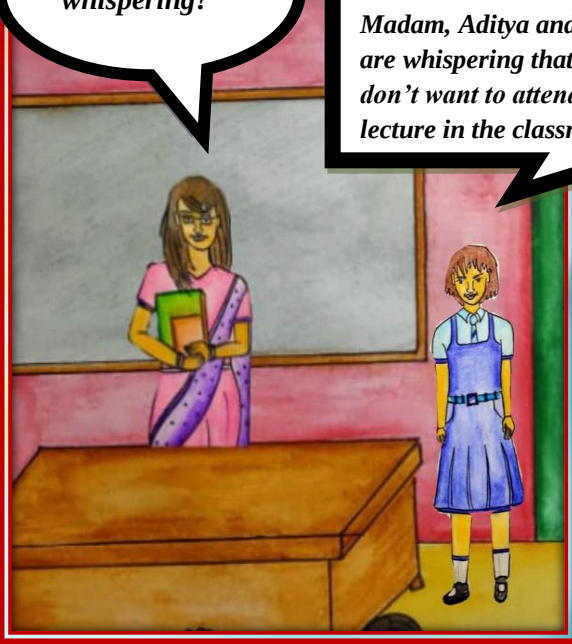
**Ms. Malini
(next Day)**

Ms Malini entering the class and children are whispering



No not again. One more lecture in this class.

Yes, who is whispering?



Madam, Aditya and Rahul are whispering that they don't want to attend the lecture in the classroom.

Yes, I wish ma'am could take us in the school ground.

Why don't you want to attend?

Madam, since morning we have been attending the lectures continuously and are really bored. Kindly take us to the school ground.



Oh! That's wonderful. Let's go outside.



Children (Chorus) :
We will enjoy!!!

Ma'am the school playground is already occupied by so many students. Where should we play?



So, children we are here in the play ground.

We are not here to play Aditya.

But ma'am ground is meant for playing!



Very Funny Ramesh, as Aditya said already that there is not much space left in the ground.



Yes ma'am, the ground is populated today.

Ma'am we never knew that there are so many children in our school.

Because you all have not been in the ground in your Geography period.

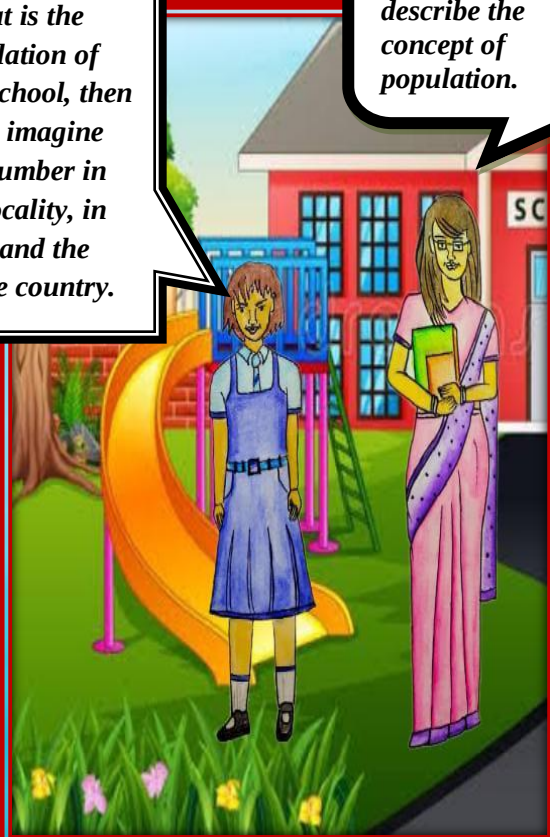


Are there more students in the school ma'am?



Yes beta! The strength of our school is quite good.

If that is the population of our school, then I can imagine the number in my locality, in state and the whole country.



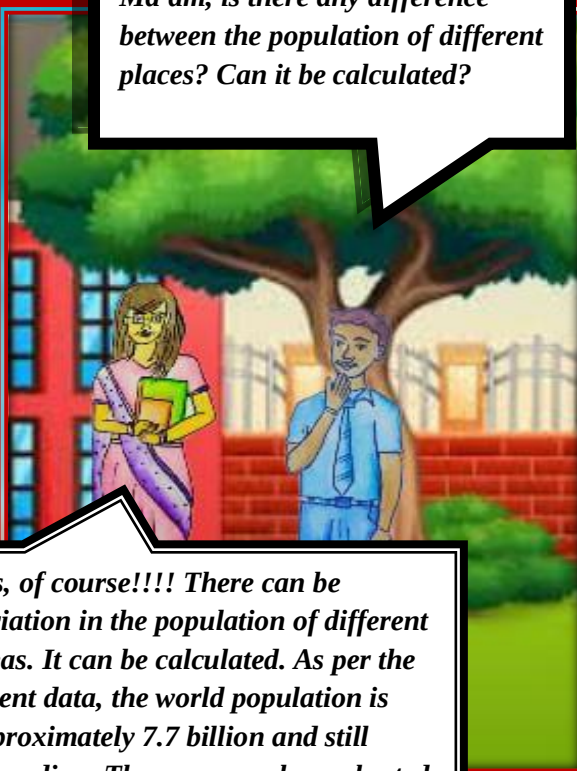
Exactly! This is how we describe the concept of population.

Ma'am, please elaborate the concept of population.



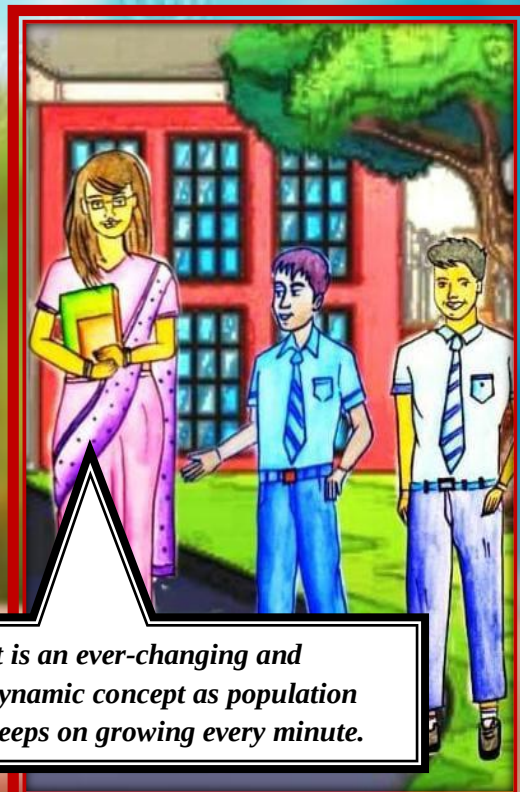
Beta, the total number of people living in a particular area is the population of that area.

Ma'am, is there any difference between the population of different places? Can it be calculated?



Yes, of course!!!! There can be variation in the population of different areas. It can be calculated. As per the recent data, the world population is approximately 7.7 billion and still expanding. The same can be evaluated for other places.

It is an ever-changing and dynamic concept as population keeps on growing every minute.



Even George B. Cressey has remarked about the most populated continent Asia that it has many places where people are few and few places where people are many.



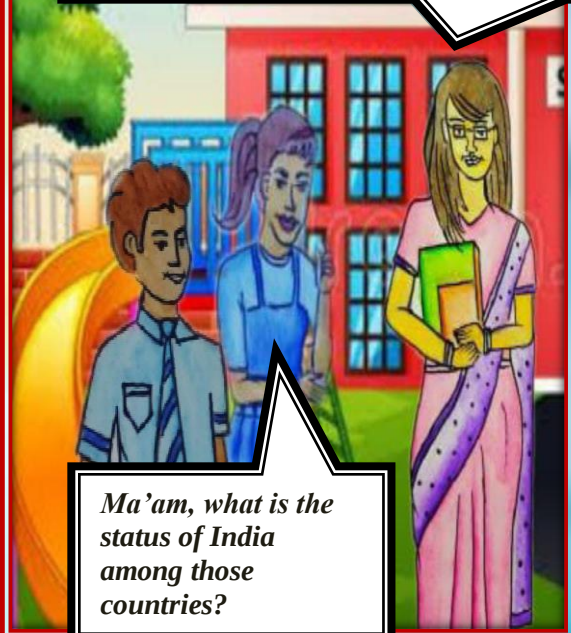
It means that there can be the difference between the population of different areas.

The total population in India is estimated as 1.366 billion which is second largest in the world followed by China.



Which are the most populated states in India?

Exactly! Population differs with respect to places. 90% of the world population lives in 10% of its land area. The 10 most populous countries constitute about 60% of world population in which 6 are located in Asia.



Ma'am, what is the status of India among those countries?

Uttar Pradesh (199,812,341) is the most populated state followed by Maharashtra (112,374,333), Bihar (104,099,452) and West Bengal (91,276,115). There is more data available for other states also. Rest we will discuss in the next class.



Q1. Find the missing words:-

- **O** **A** **O**
- **P** **Y** **O** **D**
- **A** **S** **O** **M**
- **W** **S** **R** **G**

➤ **TO DO EXERCISE:-**

- **Find out the total number of students in your school and the total population of your state.**

ANSWER KEY:-

Q1. FIND THE MISSING WORDS

- **POPULATION**
- **PLAYGROUND**
- **CLASSROOM**
- **WHISPERING**

Q2. TO DO EXERCISE (TO BE DONE BY THE STUDENTS)

Neetu on her way to home imagines about the densely populated area in which she lives and compares it with other places. She visits her aunt later, who is a social science teacher.



Hello Aunty,
how are you?

I am good,
how about
you?



Why there is a difference between the population density of different areas???

Please ask.

I am fine.
Can I ask you a question?

As you know it is the ratio between the number of people to the size of land. So

So the difference between density depends on the limited capacity of land to hold / support the population.

Aunt , does population density differ?

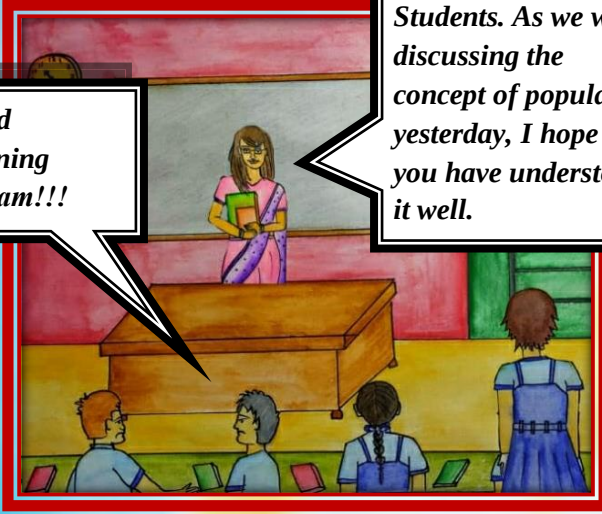
Of course, India stands at the population density of 382 people per square kilometer but it also has different regional densities.

Aunt which states have the highest and the lowest density?

Bihar has the highest density of 1102 persons per square kilometres while Arunachal Pradesh has the lowest density of 17 persons per square kilometre.

Next day at school

Good morning
Ma'am!!!



Very Good morning Students. As we were discussing the concept of population yesterday, I hope that you have understood it well.

Yes, ma'am but I have a question. Ma'am as I travel a lot and have observed the places with scarce as well as large populations. Why is it so?



Yes, there is difference in population distribution caused by certain factors because population never remains static or saturated.



Ma'am, what are the factors influencing population distribution?
Also, can you please explain the impact of these factors in altering the population distribution?

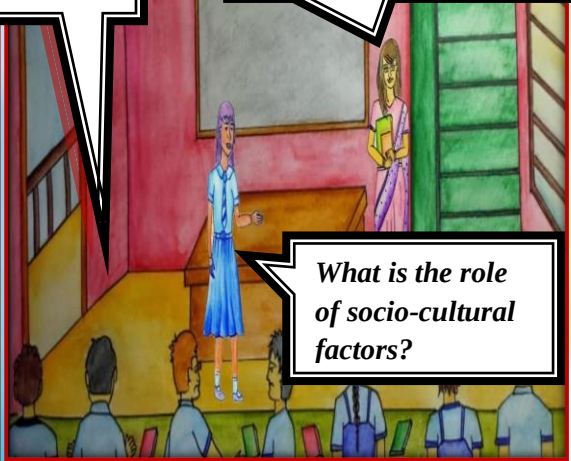
So, the factors are geographical factors like land forms and climate where as Economical factors like mineral availability and industrialization. These factors are very dominant. People prefer to live in plain areas rather than hilly or other ones as plain areas are suitable for cultivation, transportation etc. Similarly, people avoid living in areas with harsh climate or the desert ones.



Ma'am what about other factors?

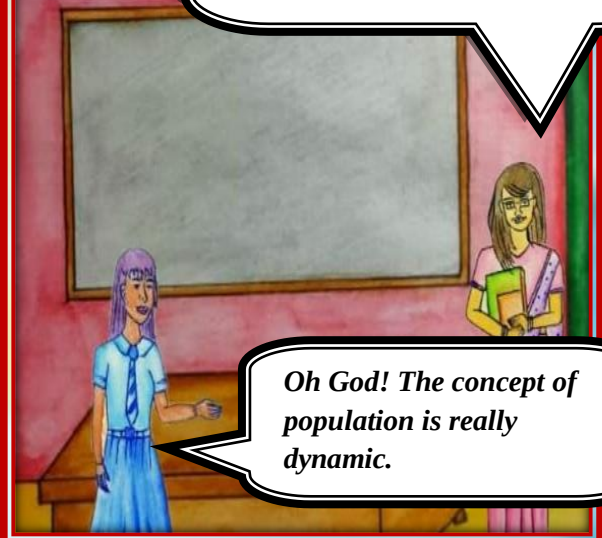
Mineral availability and industrialization generates more employment and various job opportunities. There are socio-cultural factors as well.

What is the role of socio-cultural factors?

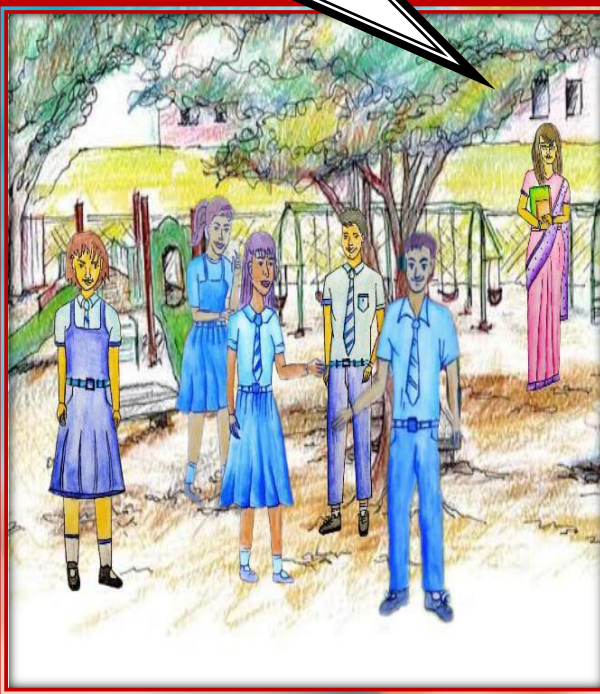


They are very influencing. Places with religious, cultural significance and social stability attract more people.

Oh God! The concept of population is really dynamic.



During the lunch break, Miss Malini noticed that few children have surrounded Neetu and were teasing her. She went there and asked "What's the matter?"



Ma'am they are teasing me because of my appearance and accent.



You should not make fun of others.



Ok ma'am.

Her accent and appearance is like that as she doesn't belong to this place.



You are right ma'am, we have shifted from Bihar.

Why did she shift from Bihar?



She settled here as her father left his job because of low income.

Ma'am they come to our place to work for us?



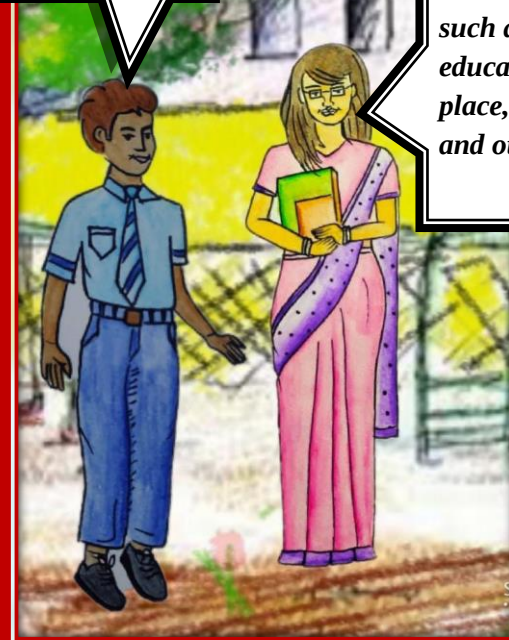
No, but for earning a better living for themselves. They have migrated in search of better opportunities.

Migrated? What do you mean by that?



Yes, Migration means moving from one place to another in search of better life opportunities.

Are there any factors which influence migration?



Most of the time, people shift from one place to another for better opportunities to elevate their livelihood such as higher education, better work place, better income and other such factors.

Apart from basic essential, there are many other push and pull factors accepting the movement of people like political instability, turmoil, riots, harsh climate and topography.



Oh now! I understand how migration can affect the population of an area which may increase or decrease.

Yes, migration alters the number of population by decreasing it at the place of origin and increasing at the place of destination.

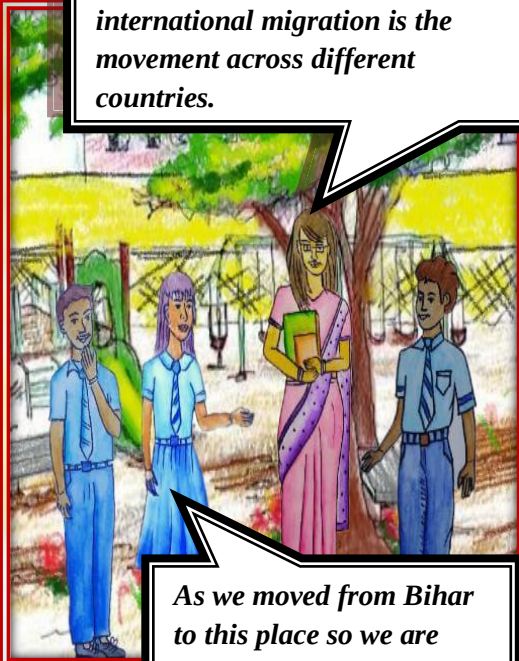


Ma'am, Does migration remain same in all scenarios?

No, migration is never the same at all the places, and it is of two types internal and international.

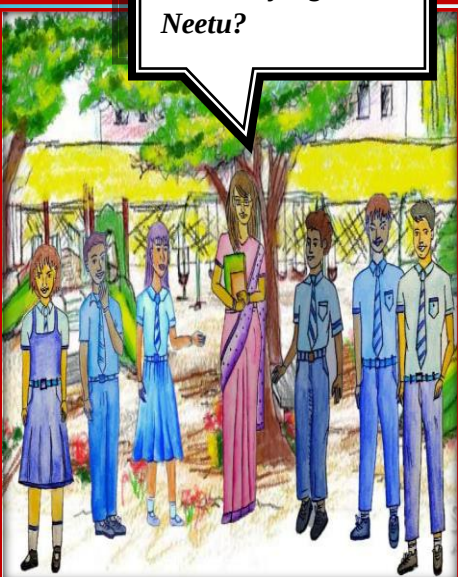


Internal migration is movement within the country and international migration is the movement across different countries.



As we moved from Bihar to this place so we are internal migrants. Isn't it ma'am?

Yes, you are absolutely right Neetu?



Let's go back to class now.



Q1. RAPID QUESTIONNAIRE

- Why was the girl being mocked?
- Why do people migrate?
- From where did the girl migrate?
- How does the migration affect the population of an area?

SURVEY: Prepare a questionnaire and do the survey in your locality and try to find out the most common reasons of migration.

ANSWER KEY:- Q1:- RAPID QUESTIONNAIRE:-

- Because of her appearance and accent.
- In search of better opportunities and higher living standards.
- She migrated from Bihar.
- It gets decreased at place of origin and increased at the place of destination.

Neetu was upset when she reached home

What's the matter??



Children mocked at me.....



Don't be sad this is our destiny...

Father arrives.....



Can we go back to our hometown?



No, dear we cannot. We have shifted here because of poverty (gareebi) as we couldn't even manage three meals a day...

What is your profession?

I work as a mason (Mistri).



Why can't you work like parents of my class mates who are financially sound?



Father sits quietly while Neetu runs back to her room.



Neetu avoided going to school because of humiliation.

Why is Neetu absent from so many days?

May be because of what had happened with her that day?



Ms. Malini goes to staff room where Ms. Tripathi (English Teacher) was sitting.

What's the matter, you seem to be sad?

While narrating the entire incident to her, she asked Ms. Tripathi to plan a visit to slum area.

For Sure!!!!



Let's go to slum area...

Let's go!!!

CONVERSATION AT SLUM AREA



Oh God! Why this place is so dirty?

People like Neetu live in these kinds of agglomerations only.



Why ma'am?

Because they can't afford as they earn meager wages.



Now let's visit Neetu's house....



Very good afternoon teachers. Pleased to see you.



Good afternoon Neetu. Why are you not attending the school?



Because of humiliation

Neetu, there are no facilities here like clinics, school and proper sanitation. Why do you even live here?



Because my parents have low income and we can barely make our ends meet. So we cannot afford to live in areas like yours.

Your father is a mason so don't get shocked because my father is well earning doctor?



Don't start again. People work according to their capabilities and resources available.

Ma'am I recalled that this we have studied in class 10th Social Science.

Yes, like I have already told you about the push and pull factors of migration.



Ma'am Are there any other components of population change?

Yes, one is birth rate and other is death rate.



Birth rate is number of live births and death rate is number of deaths in a year per thousand of the population. Death rate plays more active role in the population change.



Birth rate and death rate can be affected by the resource availability which leads to migration.



With declining death rate and increasing birth rate, the population is expanding at large. Isn't it obvious that it has affected the resources too?

Exactly I am concerned about future with not much resources left and population still doubling itself.

Absolutely! On the comparative analysis given by different scholars, the population eruption can also lead to famine, diseases and war if resources won't be stabilized.

There is a theory of demographic transition that explains about the population change of any region.



Please explain that theory?

COMPREHENSION BASED QUESTIONS:-

Q1. REARRANGE THE WORDS:-

- **GLOAGEMRTAIOIN**
- **NISAATITNO**
- **NYUHGNIECI**
- **MDOERPIGAHC**

Q2. MCQ

1. Population is _____ in nature.

- **Static**
- **Dynamic**
- **Saturated**
- **None of the above**

2. The unhygienic urban agglomeration is called

- **Towns**
- **Village**
- **Slums**
- **Shacks**

3. Factors affecting population includes.

- **Economical**
- **Geographical**
- **Cultural**
- **All of the above**

ANSWER KEY:-

Q1. REARRANGE THE WORDS

- **AGGLOMERATION**
- **SANITATION**
- **UNHYGENIC**
- **DEMOGRAPIC**

Q2. MCQ

- **DYNAMIC**
- **SLUMS**
- **ALL OF THE ABOVE**

That theory explains the population changes from high births and high deaths to low births and low deaths as society progresses from rural agrarian and illiterate to urban industrial and literate society. Rest I'll explain you in the class tomorrow.



Now let's move from here. We will discuss rest of the things on the way to school.



I think in order to stop this menace we really need to aware others, otherwise the end will be really saddening.



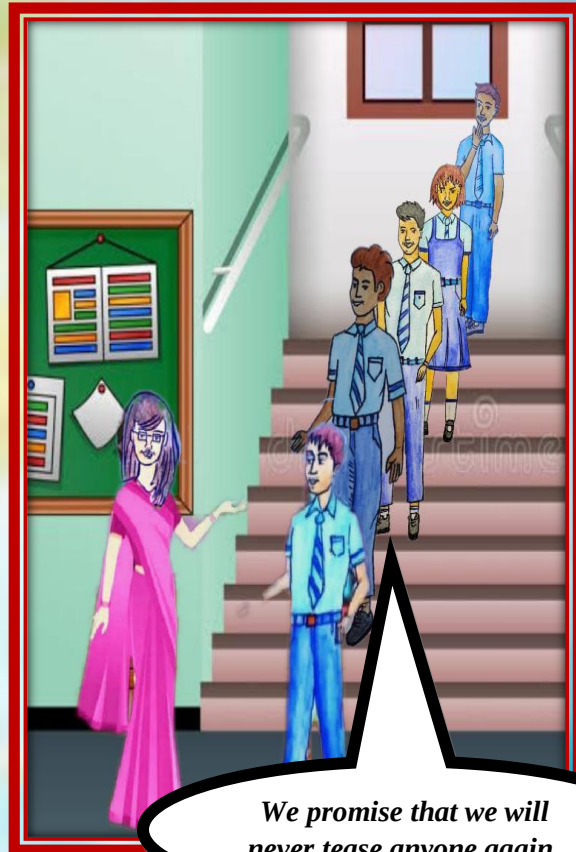
This menace can be eradicated by education and for that attending school is necessary.

Do you understand Neetu?



Yes ma'am.

**Children returning
to school.....**



We promise that we will
never tease anyone again.

Fill in the blanks

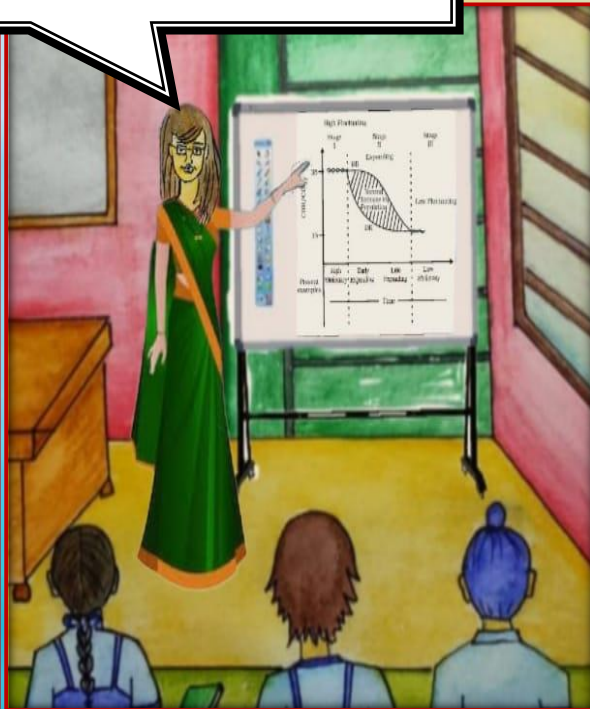
- **Migration is _____ in nature.**
- **Birth rate can be described as _____.**
- **The overcrowded agglomeration characterize by poor inhabitation is known as _____.**
- **Slum areas are deprived of proper _____ and _____.**
- **_____ and _____ are economic factors affecting population distribution.**
- **The theory which explains change in population is called _____.**
- **Migration is directly affected by _____ and _____ factors.**

ANSWER KEY (FILL IN THE BLANKS):-

- DYNAMIC
- NUMBER OF LIVE BIRTHS PER THOUSAND OF POPULATION
- SLUMS
- SANITATION, HYGINE
- MINERAL AVAILABILITY, INDUSTRIALIZATION
- DEMOGRAPHIC TRANSITION THEORY
- PUSH, PULL

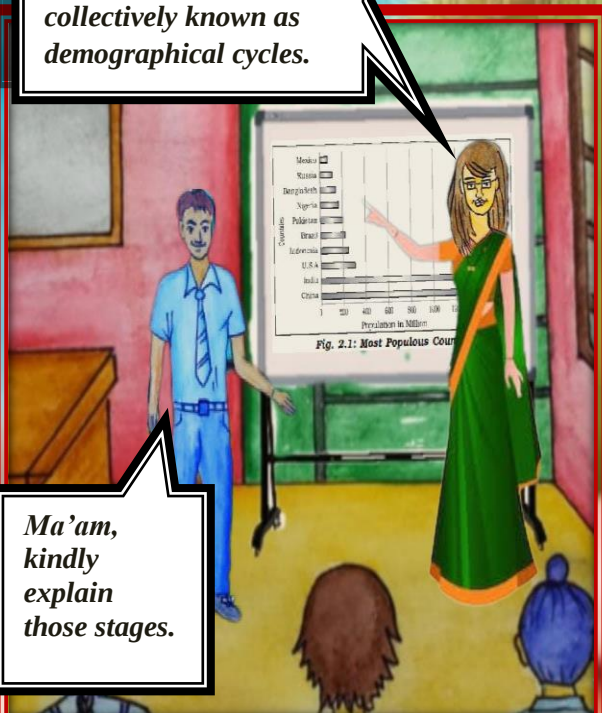
Next day at school.

Yes, What were you asking about demographic transitional stages ?



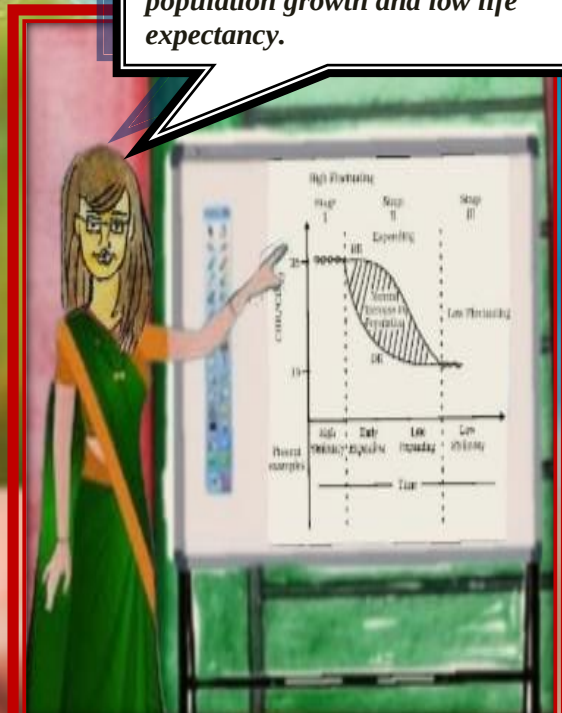
Ma'am I want to know as different places are at different stages of demographic transition, is it applicable to all?

Absolutely, these changes are not abrupt but occur in stages collectively known as demographical cycles.

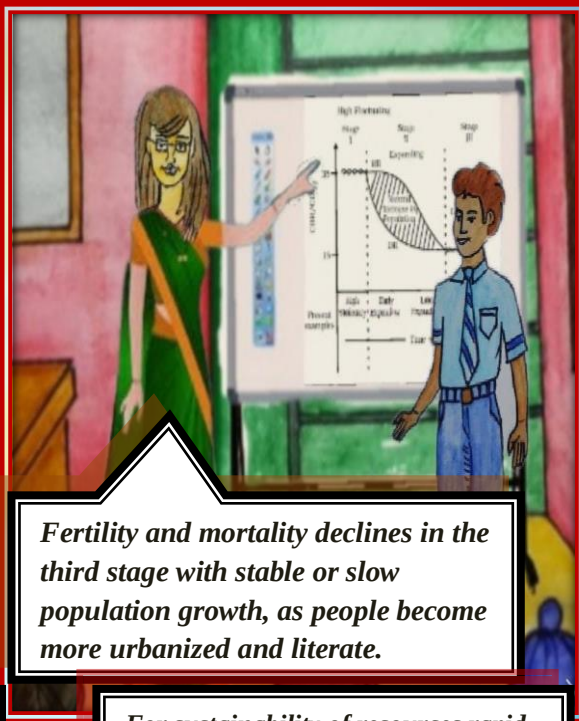
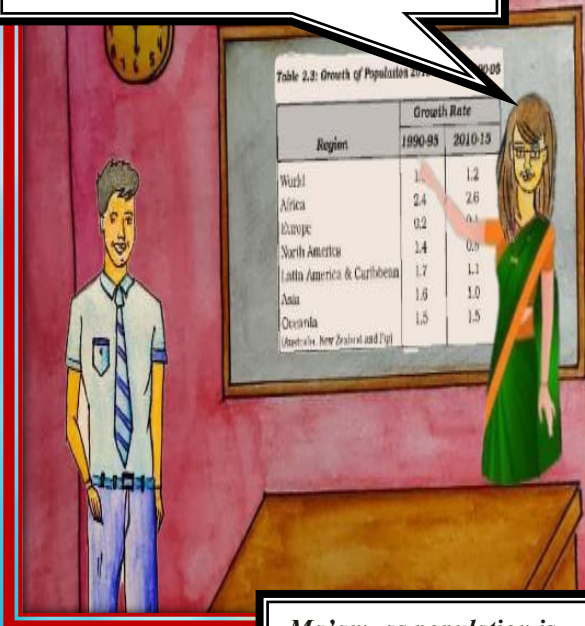


Ma'am, kindly explain those stages.

The first stage has high fertility and high mortality due to epidemics and variable food supply leading to low population growth and low life expectancy.

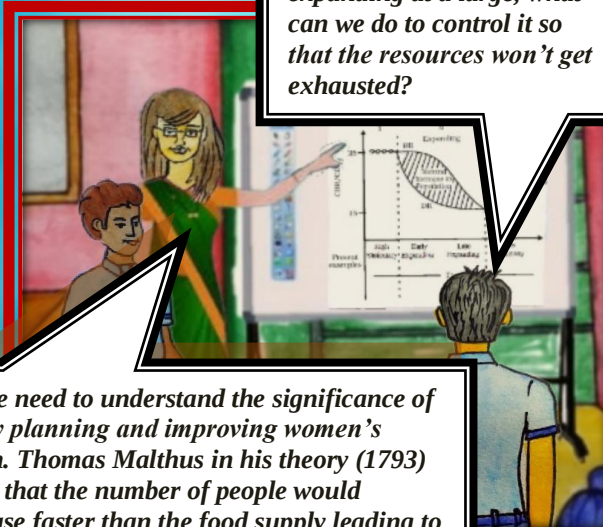


Fertility remains high in the beginning of the second stage but declines with time followed by reduced mortality rate, improved sanitation and health conditions.



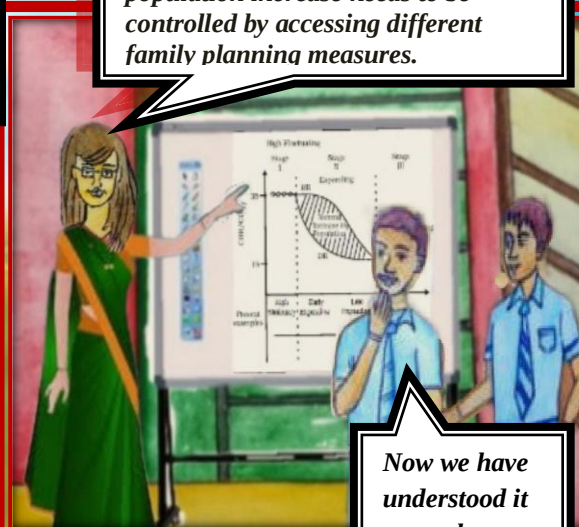
Fertility and mortality declines in the third stage with stable or slow population growth, as people become more urbanized and literate.

Ma'am, as population is expanding at a large, what can we do to control it so that the resources won't get exhausted?



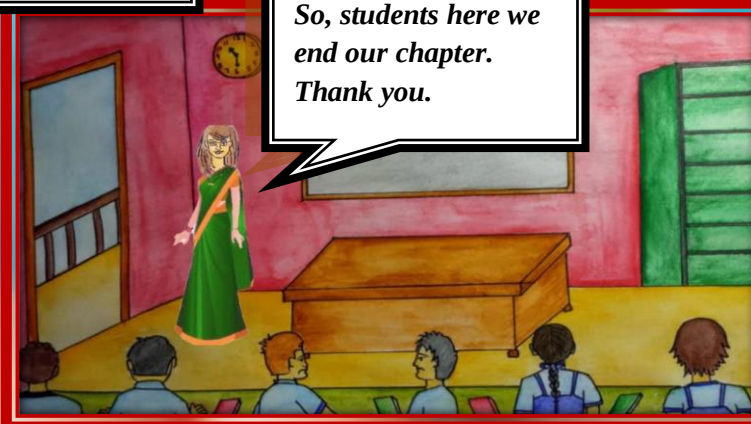
People need to understand the significance of family planning and improving women's health. Thomas Malthus in his theory (1793) stated that the number of people would increase faster than the food supply leading to different crisis.

For sustainability of resources rapid population increase needs to be controlled by accessing different family planning measures.



Now we have understood it properly.

So, students here we end our chapter. Thank you.



TRUE OR FALSE

- **Slum areas are in better condition.**
- **Migration is necessary to elevate the living condition of the population.**
- **Death rate cannot alter the population growth.**
- **There is only one specific type of migration.**
- **Overcrowding is a sign of developed agglomeration.**
- **People migrate in search of job only.**
- **Population explosion can cause depletion of resources.**

ANSWER KEY TRUE OR FALSE

- FALSE
- TRUE
- FALSE
- FALSE
- FALSE
- FALSE
- TRUE

JUMBLED WORDS

1. **IGAMIRTNO -**
2. **LTOOPUPAIN -**
3. **SMNOA -**
4. **LHGOEPAGRAIC -**
5. **NRNTATINEAIOL -**
6. **CAUTIONEDI -**
7. **ZABARNONTIUI -**
8. **YNMDAIC -**

ANSWER KEY JUMBLED WORDS

- MIGRATION
- POPULATION
- MASON
- GEOGRAPHICAL
- INTERNATIONAL
- EDUCATION
- URBANIZATION
- DYNAMIC

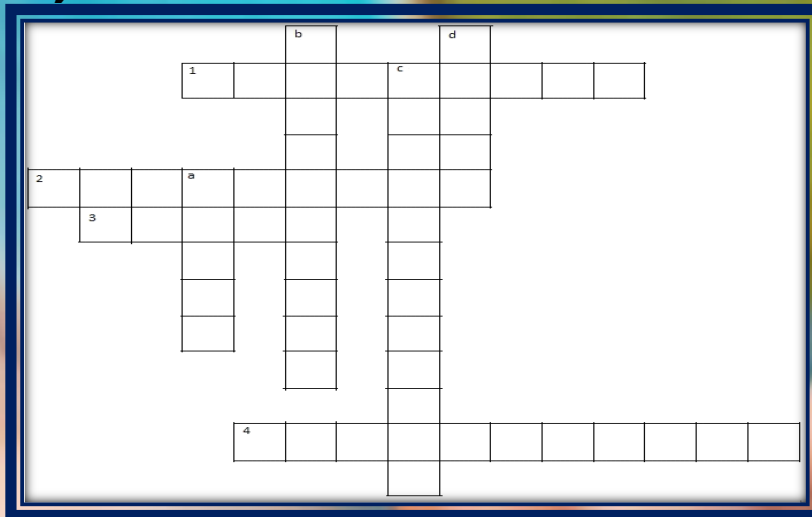
CROSSWORD

Across

1. **Most active component of population change**
2. **Movement from place to another**
3. **Overcrowded urban street**
4. **Related to structure of population city**

Downwards

- a. **Related to village**
- b. **Public hygiene and disposal**
- c. **Group of people specified**
- d. **Characteristics of a town or**



ANSWER KEY CROSSWORD

ACROSS

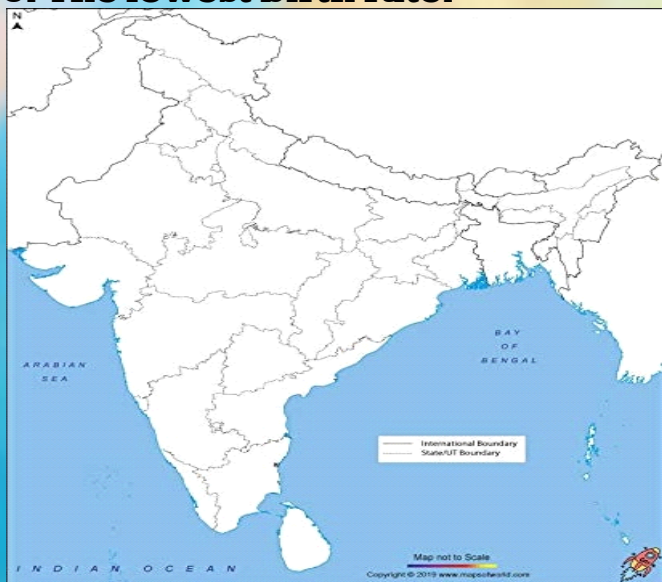
- DEATHRATE
- MIGRATION
- SLUM
- DEMOGRAPHIC

DOWNWORDS

- a. **RURAL**
- b. **SANITATION**
- c. **POPULATION**
- d. **URBAN**

On the given outline map of India locate the following

- 1. State with highest birth rate.**
- 2. Place recording the highest in-migration.**
- 3. Highest and lowest density area.**
- 4. State having largest level of industrialization.**
- 5. The lowest birth rate.**



**ANSWER KEY
MAP WORK**

- BIHAR
- DELHI
- HIGHEST-
WEST BENGAL
- LOWEST-
ARUNACHAL
PARDESH
- TAMIL NADU
- SIKKIM

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Demographic Year Book, 2015

Demographic Year Book, 2009-10)

GLOSSARY

- **Agglomeration :-** mass of collection of things.
- **Populated:-** forming the population of (a town, area or country).
- **Appearance :-** way that someone or something looks.
- **Opportunity :-** set of circumstances that makes something possible to do.
- **Accent :-** distinctive mode of pronunciation associated with the particular nation, locality or social setup.
- **Slum :-** overcrowded urban streets inhabited by poor people.
- **Employment :-** condition of having paid work.
- **Mason :-** builder and worker in construction.
- **Elementary :-** related to basic feature of subject or class.
- **Sanitation:-** conditions related to public health such as provision of clean water and proper sewage.
- **Dynamic:-** constant change or activity.
- **Comparative:-** perception of being relative.
- **Analysis :-** detailed examination of a structure.
- **Eradicated :-** destroy completely, to put to an end.
- **Geographical :-** based on or derived from the physical features of an area.
- **Urbanization :-** the process of making an area more urban.
- **Industrialization :-** the development of industries in a country or region on a wide scale.
- **Stability :-** a state of being stable or permanent.
- **Demographic :-** relating to the structure of population or a particular sector of population.
- **Transition :-** the process or a period of changing from one state or condition to another.

FROM PRINCIPAL'S DESK



*Ms Rohini Aima; Principal
Cum Vice-Chairperson*

Life is a journey of challenges, accept them, combat them and emerge as a warrior .We live today in a world that is very different from the one we grew up, in the one we were educated in. The world today is changing at such an accelerated rate where we as educators need to pause and reflect on this entire system of education. Jammu Sanskriti School, Jammu is well equipped to prepare our children and faculty to face the challenges that the future holds and work at implementing a well-balanced curriculum to ensure that the children who walk into the portals of JSS will not just leave their school years but truly be prepared to face life's challenges. The entire process of accomplishing Graphic Novel is challenging which required deep insight and untiring efforts from our dedicated and devoted faculty who carved a niche by accomplishing this Graphic Novel. The continuous spectrum of meetings, both online and offline resulted in clarification of doubts thereby resulting in better outcome. The lacunas were evident but with the span of time, everything started falling on the right place at right time and finally the product is in front of you. I cannot teach anybody anything, I can only make them think"-Socrates. Open mindedness, a multicultural orientation, independence, a global outlook, multiple intelligences and abilities - these are the premium qualities needed today. As a 21st century organization, the school desires to set an approach to learning that incorporates inquiry, research, analytical thinking and an ethical approach that becomes a lifetime habit. The students are helped to focus on confidence building, while nurturing a strong sense of social and environmental responsibility through academic and co-curricular activities as we believe, like Paul "Bear" Bryant that, "It is not the will to win, but the will to prepare to win that makes the difference". I congratulate the team JSS for bringing out the first issue of the graphic novel and convey my heart felt gratitude to Mr Sandeep Sethi Director Education M.S.M.S.II. Museum Trust for his timely guidance and support rendered.As team we are open to feedback for further improvisation.

SUMMARY

This novel explains the timeline of Man's advent & developing population over space & time. Since ancient times man's survival has been dwelling on the existence of society. Early societies were scars in nature, but later on these became more extensive as the population distribution expanded. Population distribution means arrangement of people over the earth's surface. Population is not evenly distributed as 90 percent of the world's population lives in about 10 percent of its land area. The 10 most populous countries of the world contribute about 60 per cent of the world's population. Out of these 10 countries, 6 are located in Asia. As the population grew more, the more land was occupied. The ratio between land & it's existing population became the density usually measured in persons per sq kms. Some known to be densely populated across the world like North-Eastern USA, North-Western Europe, South, South-West and East Asia. Unlike the ancient ones the modern population is radically being effected by several factors viz., geographical, social, cultural, political and economical. People have been shifting from place to another in search of elevated living standards causing change in the distribution and the growth of the population in both the places of origin as well as destination. The economical factors have been the most primitive cause of migration which predominantly includes the basic amenities such as food clothing and shelter. As the population exploded the extensive migration without proper care taking resulted in the unhygienic and ill structured situation of which slums are an example. In later period the concept of population explosion emerged making it impossible to combat the problems of the population such as population explosion. Developed countries took more time to double their population as compared to developing countries. Even when a small annual rate being applied to very large population, lead to a large population change. There is negative correlation between economic development and population growth. Gradually the demographic transition theory given by different scholars became the basic key to combine all the factors of population from components of population change to the factors influencing it simultaneously. It collaborated different situations of the population in the present day scenario. This theory studies the changes in the population of a region as it moves from high births and high deaths to low births and low deaths when a society progresses from rural agrarian and illiterate to urban, industrial and literate. Explained in different stages it narrated the history of population expansion in free environment, interdependency & later impacts.

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