

Global Challenges

RESEARCH TOPIC- **Food challenges**

1. Introduction (food from plants, coastal, dairy etc.).
2. Food production – Challenges and how to address it
3. Food preservation – Challenges and how to address it
4. Food distribution and food chain– Challenges and how to address it
5. Genetically modified foods – Challenges and how to address it
6. Food security for all -Challenges and how to address it
7. Malnutrition - Challenges in providing balanced diet.
8. Food wastage -Challenges and technologies involved in prevention
9. Famine – Challenges and how to address it
10. Food innovation (nutrition enhancement, alternative foods, value addition, bio park-value added food, food basket, right to food)
11. Indian government policies for addressing food challenges & Study on Tamil Nadu public distribution system
12. Study on Kanyakumari`s food demand and supply challenges; step to overcome.
13. Conclusion

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We are happy to inform you that the above students are selected for the Young Scientists Programme 2020-2021.

Thank you
Mullanchery M.VELAIAN,
Organizer, Kumari Arivial Peravai

Note: Introductory meet for selected students along with parents is scheduled on 24th October 2020 at 6.30PM through online.
Link will be shared later.

Global Challenges

RESEARCH TOPIC- **Water challenges**

1. Introduction
2. Water storage – Challenges and how to address it
3. Water distribution – Challenges and how to address it
4. Water security
5. Water for agriculture related activities – Challenges and how to address it
6. Water for industrial needs – Challenges and how to address it
7. Droughts – Challenges and how to address it
8. Waste water management
9. Water disputes between states- challenges in resolving the same.
10. Economy from water resources
11. Study on destruction of water bodies in Kanyakumari district
12. Study on water distribution system of Kanyakumari
13. Conclusion.

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8	S R DAFINI SINGH	ADLINE MATRIC HIGHER SECONDARY SCHOOL, KUZHUMAIAKADU	8300735623
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RESEARCH TOPIC- **Health challenges**

1. Introduction
2. Diseases due to change in lifestyle changes.
3. Diseases due to food & adulterants (Adulterants in food, usage of Pesticides & fertilizers)
4. Infectious diseases- Causes & Challenges in prevention and control. (Water borne diseases; Air borne diseases)
5. Genetic disorders- Challenges in preventing them.
6. Diseases due to climatic changes- Challenges and how to address it.
7. Social wellbeing and mental health
8. Immunity related diseases and vaccines
9. Health risk due to addiction, alcohol and smoking.
10. Study on world pandemic and how it is addressed. (2009 & 2020)
11. WHO role in providing better health to global population
12. Study on Maruthuvalmalai.
13. Conclusion

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RESEARCH TOPIC- **Environmental challenges**

1. Introduction
2. Urbanization
3. Deforestation
4. Ecological effects on marine life
5. Destruction of mangrove forest
6. Sand dunes
7. Natural calamities
8. Loss of bio diversity (other than human)
9. Radiation and health hazard.
10. Climatic change, Sea level rise, Global warming
11. Environmental impact due to migrants
12. Study on destruction of western Ghats in Kanyakumari region
13. Conclusion

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RESEARCH TOPIC- - **Technological challenges**

1. Introduction
2. Renewable energies for all needs.
3. Energy efficient desalination
4. Biodegradable electronic products & Zero emission domestic appliances
5. Challenges in innovating zero liquid discharge equipment's
6. Artificial intelligence for social needs.
7. Alternative to thermoplastics
8. Reusable space technologies
9. Waste water treatment technologies
10. Hazardous material mitigation and treatment technologies
11. Technological challenges in knowledge enrichment.
12. Study on India's science and technology development
13. Conclusion

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