



TEST CODE : 7 7 1 8 1 6

SPS 2024 – UPPSC MAINS

**ForumIAS****ESSAY**

Name of Candidate

ABHIMANYU SINGH

Roll No.

1910177340

Date:

11/06/2025

Time Allowed: Three Hours

Maximum Marks: 150

**INDEX TABLE****INSTRUCTION**

Q. No.	Max. Marks	Marks Obtained
Q.1		
Q.2		
Q.3		
<b>Total Marks:</b>		

1. Do furnish the appropriate details in the answer sheet (viz. Name, Email, Roll No, Mobile).
2. The Question Paper is divided into **THREE** Sections. Write three essays in English or Hindi language, selecting one topic from each section.
3. Words limit of each essay is **700** words.
4. Each essay carries **50** marks.
5. Answers must be written in the medium authorized in the admission Certificate, which must be stated clearly on the cover of this Question-Cum-Answer (QCA) Booklet in the space provided.
6. Any page or portion of the page left blank in the Question-Cum Answer Booklet must be clearly Struck off.

**Remarks:**

*Any specific messages for ForumIAS Mentors/ Evaluators with respect to your copy? Write it here.*

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**For Student Only**

Start Time |

End Time |

Mode Of Examination:

Online Offline **For Office Use Only**

ECN CODE:

EG:

Evaluation Date:

**Note:** Students are expected to incorporate suggestions from the feedback provided in the answers. Discussion classes for the tests are also available online in your portal to aid in your preparation. Further, students are requested to see the good copies of the tests and learn from them. You can also discuss your copy with a Mentor and discover ways and means to improve your answers, or if you have any issues with this test / copy. Ask specific questions, to get specific answers.

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## EXAMINER'S REMARKS



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### CRITERIA FOR THE FEEDBACK SECTION AT THE END OF EACH QUESTION

1. **AWIS = Answered What is Asked.** This means whether you have addressed the core demand of the question or not. Addressing the core demand of the question gets you an objectively fair score. It is examiner's perception if you have understood the question and if you know the answer in the first place. Creative answer writing, sometimes missing the core demand, may fetch very high or very low scores, and exposes your answer to the subjectivity of the examiner.
2. **CD & VA = Content Density & Value Addition.** Examiner will evaluate the quality and quantity of your content in the answer. In the same word limit and space limit have you (a) written what is asked (b) gone beyond what is asked (c) enriched answers through combination of ( but not all!) suggestions, ideas, quotes, flowcharts, diagrams, facts and figures, data etc. This affects objective components of assessment.
3. **S & F = Structure & Flow** = Whether you have structured your answer properly or not. Whether the answer has been broken into parts and sub-parts and each part has been addressed appropriately or not. Whether the flow of the answer is maintained. Affects both subjective and objective components of assessment.
4. **P & R =** How your answer performs on the criteria of **presentation, ease of read, clarity and apparent effort** in writing the answer. This affects the subjective components of assessment.



## Section - A / खण्ड - क

1. Bridging the Gaps: Strategies for Inclusive Development Across Social Sections.  
अंतराल को पाटना: सामाजिक वर्गों में समावेशी विकास के लिए रणनीतियाँ।
2. Challenges and Opportunities in the Adoption of Renewable Energy in India.  
भारत में नवीकरणीय ऊर्जा को अपनाने में चुनौतियाँ और अवसर।
3. Environmental Sustainability and Economic Growth: Can They Coexist?  
पर्यावरणीय स्थिरता और आर्थिक विकास: क्या ये सह-अस्तित्व में रह सकते हैं?

## Challenges and opportunities in adoption of Renewable Energy in India

It is often said that "Nature gives and forgives" but we have seen dreadful natural phenomenon in last decade where it seems Nature is seeking revenge against over-exploitation by human beings. An Earthquake kills thousands of life, flood swaying away not only the people but properties also.

These events, their intensity & frequency directs us to think that correction of Environmental degradation is Need of hour if we do not want to see ourselves walking with modern Robots wearing oxygen cylinder on our back & protective shield for Agar Acid Rain.

We will try to address four possible aspects related to Renewable Energy as a solution for Environmental degradation. Scope and potential, Need and opportunities, challenges for adoption and possible solutions for Effectiveness.

## Scope & potential of Renewable energy

There are various source of Renewable energy like Solar energy, Hydro-electricity & Nuclear energy, Biomass based energy.

Government is focusing on production of solar energy through schemes like Surya Ghar muft bijli yojana. India is one of the pioneer country understanding the Need & potential of solar energy, formulated International Solar Alliance. India aims to produce 500 GW energy through solar power by 2030.

Hydro-electricity holds immense potential as a source of Renewable energy. for example

Uttar Pradesh has Capacity to produce 15000 MW energy through HEP but produces only 1500 MW.

Energy based on Nuclear production offers low land fall & high calorific value of energy.

Biomass based energy production will not only boost renewable energy production but a possible solution for plight of farmers reducing post Harvest losses & facilitating Backward-forward Integration with supply chains.

Need & opportunity :-

Efficient adoption of Renewable energy regime can potentially reduce the

environmental degradation. It will reduce emission of green house gases hence lowering the global temperature.

Reduction in Global temperature would be Impetus for Sustainable growth in marine as well as Continental Ecosystems. It can potentially Safeguard & preserve the Biodiversity of mother Earth.

Adoption of Renewable Energy sources can create a new Industrial landscape of manufacturing & production. Production of Electric vehicles, solar panels, Lithium batteries etc. are potential areas of development to harness the goal of \$5 trillion Economy for India.

It ~~becomes~~ Necessary for India to adopt Renewable energy to achieve the goals of Net-zero + Panchamrit by adhering with Principles of Paris Conference, COP-21.

Now we will delve into the most Necessary Component in this regard which is, what are the challenges in adopting faster, effective & sustainable Renewable energy. There are three major causes behind this.

High upfront Cost of Renewable energy makes it less popular. It is major hindrance in easy & smooth adoption of Renewable Energy.

Another reason can be Long-gestation period of these Renewable energy projects. Like Infrastructure for Electric vehicle is being build for last 5 years but a not a Notable growth has been perceived in this regard.

one of the major problem with adoption of Renewable energy is that lack of awareness for Needs & potential of Renewable energy is Rural India. people from Rural India experience little Need for faster adoption as low level of environmental degradation and digital divide are reasons behind this mental construct.

Now what can be solution for that? Nature

Does not discriminate in provision of resources for All. Hence its a Shared Responsibility of Individuals & Governments.

International Collaboration is required to solve the age old problems with Innovative ideas of New world.

If we do not want to see ourself in that situation of wearing oxygen mask we must act faster & collectively for adoption of Renewable energy where Green branches of trees are whirling with oxygen rich air, along side the Greenfield Highways facilitating the movement of electric vehicles. Now it is our choice which that In which condition we want to see ourselves !!!

### Feedback

(For OFFICE use only)

	G	A	P
AWIS			
CD & VA			
S & F			
P & R			
Please put tick marks in the above table.			
Here G is Good, A is Average and P is Poor.			
TOTAL MARKS			



## Section - B / खण्ड - ख

1. Women Are Already Strong, It's About Changing How the World Perceives That Strength.

महिलाएँ पहले से ही मजबूत हैं, बात दुनिया के उस मजबूती को देखने के तरीके को बदलने की है।

2. Sea Levels: A Threat to Coastal Communities and Global Stability.

समुद्र स्तर: तटीय समुदायों और वैश्विक स्थिरता के लिए खतरा।

3. Space Exploration and India's Ascent as a Space Power.

अंतरिक्ष अन्वेषण और भारत का अंतरिक्ष शक्ति के रूप में उदय।

Space Exploration and India's Ascent  
as a space power

The growth story of  
India from a technological  
backward country to global leader  
can give goosebumps to listeners.  
India has come a long way from  
failure of flight test vehicle in  
1979 under Satish Dhawan to  
successful landing on South pole of  
Moon by mission Chandrayaan-3.

This journey has been full of successful missions highlights the case of Indian space research full of passion, dedication and determination.

How can we say that India is on the ladder to become space power? There have been several evidences in this regard like historical Achievements, Recent successful missions, India as a trusted ally for foreign countries caturing the need of have nots, upcoming Ambitious missions & Commitment for Environmental sustainability.

we will try to address each of these aspects one-by-one in next few paragraphs

India has achieved a lot in space exploration. When ~~other~~ countries were exploring Moon, India was testing its flight test vehicle. From there, India has successfully completed launching of Rohini & Aryabhata set of Satellites.

ISRO completed the MOM (Mars orbiter mission) in 2005. MOM successfully collected pictographical data which proved beneficial for scientists to draw conclusions regarding presence of water on Mars.

In last decade itself, Indian space sciences achieved tremendous success - successful landing of Chandrayaan-3 on south pole of Moon.

made India first country to do  
So. successful launch of mission  
Aditya L-1 for solar exploration.

X-POSAT mission + INSAT-3D  
are other ambitious missions of  
ISRO for scientific studies  
~~are~~, space exploration and technological  
advancement in weather forecasting.

India is becoming  
most trusted ally of countries  
which are not advanced in  
space research. For example, ISRO  
launched 104 satellites of foreign  
nations in 2024. Another reason  
for this can be attributed to  
cost effectiveness of ISRO. ISRO  
launched these 104 satellites in  
\$15 million where giants like

Space-x charge \$ 60 million for  
Launch of single satellite.

India has achieved  
Self-sufficiency in terms of  
satellite resource pool. Launch  
of seven satellites for NAVIC  
(Indian Navigation System) will  
push India's Strategic Autonomy  
forward by reducing dependence  
on GPS like foreign technology.

NAVIC is opened for  
use by other Neighbouring countries  
in the region. It highlights  
the India's cultural policy of  
" vasudhaiva kutumbkam".

The story does  
not end with achievements but  
it is a start for bright future  
full of colours of success.

India aims for ambitious missions in future like Gaganyaan, Bhartiya Antix Station (BAS) and Venus orbiter mission (VOM).

ISRO successfully conducted test flight DV1 for Gaganyaan mission which aims to explore the capability of ISRO to send Astronauts into space & successfully bring them back. India has achieved the milestone of space-docking (Spadex) as a sub-component of Gaganyaan mission.

India aims to build its own space station (BAS) for a permanent & independent presence in space. It is a allied goal of Atmanirbhar

Bhaarat Initiative.

ISRO increases its Strength and Resilience by incorporating the best practices across the world. for that it facilitates international collaboration like collaboration for launch of Venus orbiter mission in 2028 with NASA.

ISRO Not only focuses on success but on a Sustainable development. ISRO performed controlled re-entry of Megha-tropique-I, a de-commissioned satellite in lower Earth orbit. It shows India's Uncompromising adherence with Net zero goals & Sustainable Development.

India has become the 6th largest Economy in space sector. @ The time its not far away when india will be leading the world for Sustainable Space Sciencies. ISRO will play key role in this regard.

It can be said for grit & determination of Indian Space Scientists that

" who said sky is impenetrable try & throw a stone with all your might once".

### Feedback

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#	G	A	P
AWIS			
CD & VA			
S & F			
P & R			
Please put tick marks in the above table. Here G is Good, A is Average and P is Poor.			
TOTAL MARKS			



## Section - C / खण्ड - ग

1. Challenges in the Education System and Ways to Improve It.

शिक्षा प्रणाली में चुनौतियाँ और इसे सुधारने के उपाय।

2. Technology as the Silent Feature in International Relations.

अंतरराष्ट्रीय संबंधों में प्रौद्योगिकी एक मूक विशेषता के रूप में।

3. Water Management: Addressing the Growing Crisis.

जल प्रबंधन: बढ़ती संकट का समाधान।

## Technology as the Silent Feature in International Relations

Bhutan has been a trusted partner of India for a very long time. But, China is increasing its footprints in Bhutan now, leveraging the technology transfer and enhanced connectivity through trans-himalayan multi-lateral highway. India earnestly appeal to maintain good relations leveraging its

Technology transfer for Hydro-electricity generation through projects like punasagtu-I & II. Here both the countries are leveraging technology to establish foreign relations.

In this Essay we will try to understand how technology is working as a underneath agent for foreign relations and why this is so?

India has garnered its relations with ASEAN countries in a more fruitful condition after it has launched 104 satellites of ASEAN countries (ISRO-2024) This space tech transfer builds need based Good foreign relations.

The politics of foreign relations in 1960s & 1970s revolved around the treaty of Nuclear Suppliers Group which was nothing but a potential effort of preventing the countries of third world for using Nuclear technology.

Enemy countries pose cyber threat for each other which is an example of use of technology in foreign relations whether they are Cordial or ungracious.

African nations lagged behind in development. Inadequate development of technology in African continent decided

its fate in International forums.  
Israel and many African Nations  
started their journey as a  
Nation state at the same time  
more or less. but we can see  
the difference between their  
international engagements. This  
can also be attributed to Techno-  
logy & scientific advancements

India started to  
build good relations with  
African countries by sharing  
technology like opening of  
IIT campuses in Zanzibar and  
sharing of manufacturing technologies.

Vaccine Maitri  
Component of Indian foreign

policy paradigm is also the  
prime example which shows  
that technology is key facilita-  
-tor of foreign policies.

Russia has been  
a fair weather friend of India.  
Russia has always supplied  
the cutting edge defence technology  
to India. It forms positive  
attitude of India towards  
Russian hence making cordial  
relations, highlighting the  
"Need function of Attitude" principle  
by Daniel Katz.

WTO mandates  
to conduct free & fair trade  
among countries. It

Emphasizes on the need of Complete integration of Economies for free & fair trade regimes under GATT Agreement. It clearly highlights the need of Technology transfer for better trade foreign relations.

Yet, there are several other factors which contribute for maintaining specific foreign relations. Like historical factors are more contributing for India-pakistan relations rather than technology.

Market Economy oriented outlook is another major factor which determines

the nature and intensity of relations among countries. Almost every developed country is now interested in maintaining good relations with China & USA because of their enormous market Economies.

Availability of Natural resources in Africa makes it indispensable for Growth and development of Global fraternity. presence of Rare Earth minerals in African Nations makes it important player of Global supply Chain, Hence Inclusion in G-20.

Coming back to technology, every technology is

So much desired in foreign relations. It facilitates Capacity development of Country as suggested by Amartya Sen which can be utilised for Achievement of Self-reliance curbing the threat of deterrence by denial.

Globalization made the ~~mad~~ world a global village where action of one affects all. Same goes with the technology. This is the reason that placed Technology as silent agent for foreign relations. It is not a present phenomena but found in mythological stories also where people feared from States warriors who has technological sound weapons-like Gandeev of Arjuna.

**Feedback**

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AWIS			
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If we are already doing well, a reinforcement from the Mentor will further assist us in following the right path. A Mentor may also be able to give valuable inputs with respect to time management, presentation, structure etc. He may recommend you clearly to work on content or may suggest you to take courses / read books in case he feels you lack content that may be quickly improved with a course at ForumIAS or elsewhere, or some study material.

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