

CIWP

CURRENT ISSUES WRITING PRACTICE

PRE-TEST MATERIAL FOR CIWP – S

Geospatial Technology and Sustainable Development

Why in News?

The Centre has issued guidelines for acquiring and producing geospatial data and geospatial data services, including maps. Liberalisation of the mapping industry and democratisation of existing data sets will spur domestic innovation and enable Indian companies to compete in the global mapping ecosystem by leveraging modern geospatial technologies.

Connectedness to the Syllabus

Paper I: Essay: UPSC may ask candidates to write an essay on Geospatial Technology and Sustainable Development, its uses and the related issues.

Paper II: GS I:

- Effects of globalization on Indian society.
- Salient features of world's physical geography.
- Distribution of key natural resources across the world (including South Asia and the Indian sub-continent); factors responsible for the location of primary, secondary, and tertiary sector industries in various parts of the world (including India).
- Important Geophysical phenomena such as earthquakes, Tsunami, Volcanic activity, cyclone etc., geographical features and their location-changes in critical geographical features (including water-bodies and ice-caps) and in flora and fauna and the effects of such changes.

Paper III: GS II:

- Welfare schemes for vulnerable sections of the population by the Centre and States and the performance of these schemes; mechanisms, laws, institutions and Bodies constituted for the protection and betterment of these vulnerable sections.
- Important aspects of governance, transparency and accountability, e-governance applications, models, successes, limitations, and potential; citizens charters, transparency & accountability and institutional and other measures.
- Role of civil services in a democracy.

Paper IV: GS III:

- Indian Economy and issues relating to planning, mobilization, of resources, growth, development and employment.
- Inclusive growth and issues arising from it.
- Government Budgeting.
- Major crops-cropping patterns in various parts of the country, - different types of irrigation and irrigation systems storage, transport and marketing of agricultural produce and issues and related constraints; e-technology in the aid of farmers.
- Issues related to direct and indirect farm subsidies and minimum support prices; Public Distribution System- objectives, functioning, limitations, revamping; issues of buffer stocks and food security; Technology missions; economics of animal-rearing.
- Food processing and related industries in India- scope' and significance, location, upstream and downstream requirements, supply chain management.
- Land reforms in India.
- Effects of liberalization on the economy, changes in industrial policy and their effects on industrial growth.
- Infrastructure: Energy, Ports, Roads, Airports, Railways etc.
- Investment models.
- Science and Technology- developments and their applications and effects in everyday life.

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PATNA: 7463950774 | **INDORE:** 7314977441 | **RANCHI:** 9939982007 | www.ksgindia.com

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- Achievements of Indians in science & technology; indigenization of technology and developing new technology.
- Awareness in the fields of IT, Space, Computers, robotics, nano-technology, biotechnology and issues relating to intellectual property rights.
- Conservation, environmental pollution and degradation, environmental impact assessment.
- Disaster and disaster management.
- Linkages between development and spread of extremism.
- Role of external state and non-state actors in creating challenges to internal security.
- Challenges to internal security through communication networks, role of media and social networking sites in internal security challenges, basics of cyber security; money laundering and its prevention.
- Security challenges and their management in border areas - linkages of organized crime with terrorism.
- Various Security forces and agencies and their mandate.

Articles Link

<https://sustainabledevelopment.un.org/topics/informationforintegrateddecision-making/geospatialinformation>

<https://www.geospatialworld.net/article/how-geospatial-technologies-are-improving-lives-sustainability/>

<https://www.geospatialworld.net/article/geospatial-collaborations-and-partnerships-critical-for-building-a-sustainable-world/>

<https://www.downtoearth.org.in/news/science-technology/geospatial-tech-can-fast-track-sustainable-development-beyond-covid-19-unescap-74388>

<https://www.tandfonline.com/doi/full/10.1080/10095020.2017.1325594>

https://www.unescap.org/sites/default/d8files/knowledge-products/SAS%20Technical%20Paper%20Reviewed%20%20final_Feb2019.pdf

<https://www.businesstoday.in/current/economy-politics/government-liberalises-rules-on-geospatial-data-issues-new-guidelines/story/431370.html>

Maps and Images:

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Space Technology Applications in tune with SDG



- Telecommunication
- Television and DTH services
- News gathering
- Radio-networking
- Mobile services
- Search and Rescue Services
- Met Data Dissemination Service
- Tele-education
- Tele-medicine



<https://www.slideshare.net/MSSRFMedia/geospatial-technology-for-sustainable-development>

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India's Current Space Assets

17	<ul style="list-style-type: none">• Communication satellites (INSAT- 4A, 4B, 4CR and GSAT-6, 7, 7A, 8, 9, 10, 11,12, 14, 15, 16, 17, 18, 19 & 29)• >300 Transponders in C, Ext C & Ku bands	
20	<ul style="list-style-type: none">• Remote Sensing satellites• 2 in Geo orbit (INSAT 3D & 3DR)• 18 in Sun-sync orbit (RESOURCESAT-1/ 2 & 2A; CARTOSAT-1/ 2/ 2Series (6); RISAT-2; OCEANSAT 2; MEGHA-TROPIQUES; SARAL, SCATSAT-1; HysIS; Microsat-R)	
8	<ul style="list-style-type: none">• Navigation satellites (IRNSS 1A -1G; 1I)• GAGAN Payloads in GSAT 8, 10 & 15	
2	<ul style="list-style-type: none">• Space Science satellites• MOM & ASTROSAT• Chandrayan-2 successfully Launched	

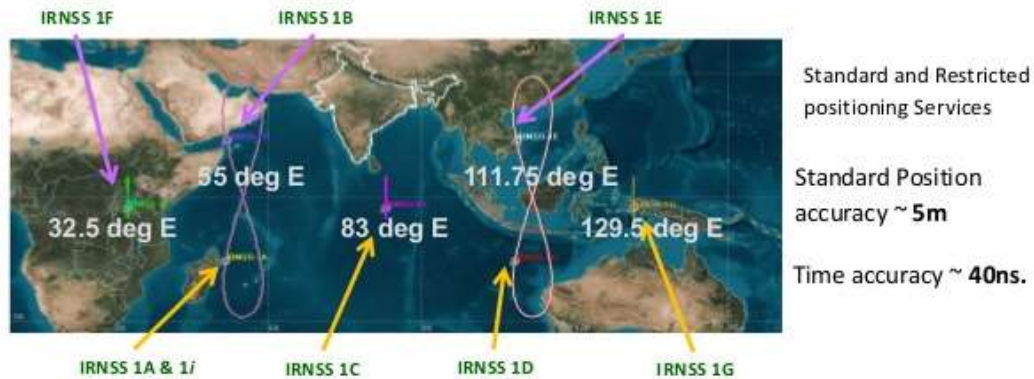
<https://www.slideshare.net/MSSRFMedia/geospatial-technology-for-sustainable-development>

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NavIC - Navigation Indian Constellation



Fleet Management	Aviation
Maritime Services	Power Grid
Geo-fencing	Precise Timing
GIS services	Geodetic data capture
Aid to hikers	Earth & Atm. Studies
Infrastructure	Disaster Management
Forest and Mining	Search & Rescue



<https://www.slideshare.net/MSSRFMedia/geospatial-technology-for-sustainable-development>

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Geospatial Technology for Development

National level Institutionalisation

Agriculture - Mahalanobis National Crop Forecast Center, MOA

Water - India Water Resources Info. System ; MOWR

Forest - State of Forests in India : Biennial reports; MOEF CC

Ocean - INCOIS provides PFZ, Ocean State forecast, Tsunami warning and many more MOES

National level Geospatial data usage

Rural Development - Wastelands, Land use & Land Cover
Ground Water, Rural Roads,.....

Urban Development: NUIS, AMRUT, and Infrastructure Devt.

Land Resources - Watershed Development, National Landuse

Disaster Management - Floods, Cyclone, Landslides, Forest fire,
Earth Quake, Drought.....



<https://www.slideshare.net/MSSRFMedia/geospatial-technology-for-sustainable-development>

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GEOSPATIAL TECHNOLOGY

INTRODUCTION:-

- Geospatial technology is a rapidly growing and changing field.
- The term geospatial technology (GST) refers to geographical information systems (GIS), global positioning systems (GPS), and remote sensing (RS), all emerging technologies that assist the user in the collection, analysis, and interpretation of spatial data.
- It deals with the relationship and condition of manmade and natural objects within space, be it on Earth, or beyond (Bolstad, 2005).
- Geospatial technology has made inroads across various sectors in the public as well as private domain in India. The major sectors using geospatial technology in India are: agriculture, telecommunications, oil & gas, environmental management, forestry, public safety, infrastructure, logistics etc.
- As stakeholders across sectors realise the utility and long term cost effectiveness of using geospatial tools and technologies, the geospatial industry is set to progress by leaps and bounds in the coming years.

<https://www.slideshare.net/madhomeena/role-of-geospatial-technology-in-agriculture>

Videos Link:

Geospatial World: Role of space technology in achieving SDGs.

<https://www.youtube.com/watch?v=ceC1E0yGkxU>

Bython Media: What Is Geospatial Technology?

<https://www.youtube.com/watch?v=ooQcRv4PYjI>

Ken Yanow:

<https://www.youtube.com/watch?v=6EsbHPpQQcw>

CEC:

<https://www.youtube.com/watch?v=dyxu1ScGQxI>

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Organization of the Petroleum Exporting Countries (OPEC)

Why in News?

Oil prices slipped as expectations that top producers would agree to raise oil supply in a meeting in the last week of February weighed on sentiment, already hit by concerns over slowing Chinese demand. Brent crude dropped 24 cents, or 0.4%, to \$63.45 a barrel by 0940 GMT, after losing 1.1%. U.S. West Texas Intermediate (WTI) crude fell 18 cents, or 0.3%, to \$60.46 a barrel, having lost 1.4%. They both touched the lowest in more than 6 days, extending losses. Expectations that the Organization of the Petroleum Exporting Countries and its allies, a group known as OPEC+, would boost oil output from April are pushing prices lower.

Connectedness to the Syllabus

Paper I: Essay: UPSC may ask candidates to write an essay on the issue of Rising inflation rate, environmental degradation, Indian Energy Security Policy, Multilateral relations with the member nations of the OPEC+ and the issues related with it.

Paper II: GS I:

- Effects of globalization on Indian society.
- Salient features of world's physical geography.
- Distribution of key natural resources across the world (including South Asia and the Indian sub-continent); factors responsible for the location of primary, secondary, and tertiary sector industries in various parts of the world (including India).

Paper III: GS II:

- India and its neighborhood- relations.
- Bilateral, regional and global groupings and agreements involving India and/or affecting India's interests.
- Effect of policies and politics of developed and developing countries on India's interests, Indian diaspora.
- Important International institutions, agencies and fora- their structure, mandate.

Paper IV: GS III:

- Indian Economy and issues relating to planning, mobilization, of resources, growth, development and employment.
- Inclusive growth and issues arising from it.
- Effects of liberalization on the economy, changes in industrial policy and their effects on industrial growth.
- Investment models.
- Infrastructure: Energy, Ports, Roads, Airports, Railways Etc
- Science and Technology- developments and their applications and effects in everyday life.
- Achievements of Indians in science & technology; indigenization of technology and developing new technology.
- Conservation, environmental pollution and degradation, environmental impact assessment.
- Disaster and disaster management.

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- Linkages between development and spread of extremism.

Articles Link

https://www.opec.org/opec_web/en/about_us/25.htm

<https://oilprice.com/Energy/Crude-Oil/OPEC-Oil-Production-Plunges-In-February-Thanks-To-Saudi-Cut.html>

<https://auto.economictimes.indiatimes.com/news/oil-and-lubes/india-urges-opec-to-ease-production-cuts/81082904>

<https://www.bloombergquint.com/global-economics/opec-core-s-crude-exports-slip-even-as-output-curbs-are-eased>

<https://economictimes.indiatimes.com/markets/commodities/news/opec-oil-output-falls-in-february-on-saudi-additional-cut-survey/articleshow/81278515.cms>

<https://auto.economictimes.indiatimes.com/news/oil-and-lubes/crude-oil-sinks-toward-60-before-opec-meets-to-decide-on-supplies/81285609>

<http://www.businessworld.in/article/Oil-Slips-On-Fears-Over-Higher-OPEC-Supply-Slower-China-Demand/02-03-2021-382706/>

Maps and Images:

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OPEC Statute & Membership

“Any country with a substantial net export of crude petroleum, which has fundamentally similar interests to those of Member Countries, may become a Full Member of the Organization, if accepted by a majority of three-fourths of Full Members, including the concurring votes of all Founder Members”

<https://www.slideshare.net/ruchir1/opec-11674669>

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OPEC Function

- Cartel enforcement problem: overproduction and price cheating by members.
- The methods available to engage in such cheating
 - i. Extending credit longer than the standard 30 day period
 - ii. Selling high grade oil at the price of low grade oil. Crediting for the transportation cost.
- Rivalry between two groups within OPEC
 - I. Hawks-Countries having lower production ask for higher prices to get maximum revenue.(Iran and Iraq)
 - II. Doves- Countries having Higher output can set lower prices to achieve economies of scale and make sure that the demand of oil is maintained in the market and people do not switch to substitutes(Saudi Arabia, Kuwait, United Arab Emirates)

<https://www.slideshare.net/ruchir1/opec-11674669>

“ The Organization of Petroleum Exporting Countries is a cartel that unites under one common goal: maintain and stabilize international crude oil prices.

<https://www.breakthroughfuel.com/blog/what-is-opec-overview/>

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How OPEC Functions

- ❑ The OPEC Conference: supreme authority, meets generally in March and September
- ❑ Heads of Delegation: official representatives of each Member Country
- ❑ Board of Governors: directs management, draws up budget
- ❑ Secretariat: carries out executive functions, consists of Secretary General and Research Division

<https://www.slideshare.net/iirmjaipur/opec-organization-of-petroleum-exporting-countries>

Videos Link:

Rajya Sabha TV: <https://www.youtube.com/watch?v=KneAgK4lgSY>

CNBC International: <https://www.youtube.com/watch?v=mlWmJt8O8Kw>

Rajya Sabha TV: <https://www.youtube.com/watch?v=oXxDV7j42qg>

Rajya Sabha TV: <https://www.youtube.com/watch?v=FDXxHIPDnTs>

Paternity Leave

Why in News?

Procter & Gamble (P&G) India has introduced an inclusive parental leave policy called 'share the care'. The move will enable all new parents working at the FMCG company to

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avail of the leave, irrespective of gender or marital status. The company said in a statement this will entitle all new parents — including biological parents, domestic partners, adoptive parents or parents in same-sex couples — to 8 weeks fully paid leave. This builds on the company's existing maternity leave policy of 26 weeks for birthing mothers and adoption leave of 26 weeks for primary caregivers.

Connectedness to the Syllabus

Paper I: Essay: UPSC may ask candidates to write an essay on the issue of Paternity Leave, Social Security Measures, Corporate Culture and the related issues.

Paper II: GS I:

- Indian culture will cover the salient aspects of Art Forms, literature and Architecture from ancient to modern times.
- Modern Indian history from about the middle of the eighteenth century until the present- significant events, personalities, issues.
- Salient features of Indian Society, Diversity of India.
- Role of women and women's organization, population and associated issues, poverty and developmental issues, urbanization, their problems and their remedies.
- Effects of globalization on Indian society.
- Social empowerment, communalism, regionalism & secularism.

Paper III: GS II:

- Indian Constitution—historical underpinnings, evolution, features, amendments, significant provisions and basic structure.
- Functions and responsibilities of the Union and the States, issues and challenges pertaining to the federal structure, devolution of powers and finances up to local levels and challenges therein.
- Appointment to various Constitutional posts, powers, functions and responsibilities of various Constitutional Bodies.
- Statutory, regulatory and various quasi-judicial bodies.
- Government policies and interventions for development in various sectors and issues arising out of their design and implementation.
- Development processes and the development industry —the role of NGOs, SHGs, various groups and associations, donors, charities, institutional and other stakeholders.
- Welfare schemes for vulnerable sections of the population by the Centre and States and the performance of these schemes; mechanisms, laws, institutions and Bodies constituted for the protection and betterment of these vulnerable sections.
- Issues relating to development and management of Social Sector/Services relating to Health, Education, Human Resources.
- Issues relating to poverty and hunger.
- Important aspects of governance, transparency and accountability, e-governance applications, models, successes, limitations, and potential; citizens charters, transparency & accountability and institutional and other measures.
- Role of civil services in a democracy.

Paper IV: GS III:

- Indian Economy and issues relating to planning, mobilization, of resources, growth, development and employment.
- Inclusive growth and issues arising from it.

Articles Link

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<https://www.rocketlawyer.com/gb/en/quick-guides/paternity-leave>

<https://www.helpline.law.com/family-law/mpbil/maternity-and-paternity-benefits-in-india.html>

<https://www.barandbench.com/columns/acknowledging-unpaid-care-work-and-the-need-for-a-paternity-benefit-act>

Maps and Images:

A HELP FOR WORKING MOTHERS?	
<ul style="list-style-type: none">> Studies have found that up to 86% of cos introduced paternity policies to help young working mothers	
<ul style="list-style-type: none">> Paternity leave also helps cos to promote gender parity and culture of inclusion	
<ul style="list-style-type: none">> Deutsche Bank offers 6-month parental leave to men if they are primary caregivers	<p>Asian Paints offers men 10 days too</p>
<ul style="list-style-type: none">> PayPal doubled its paternity leave from 5 to 10 days, while	<ul style="list-style-type: none">> Microsoft India and GSK Consumer Healthcare offer 2-week paternity leave

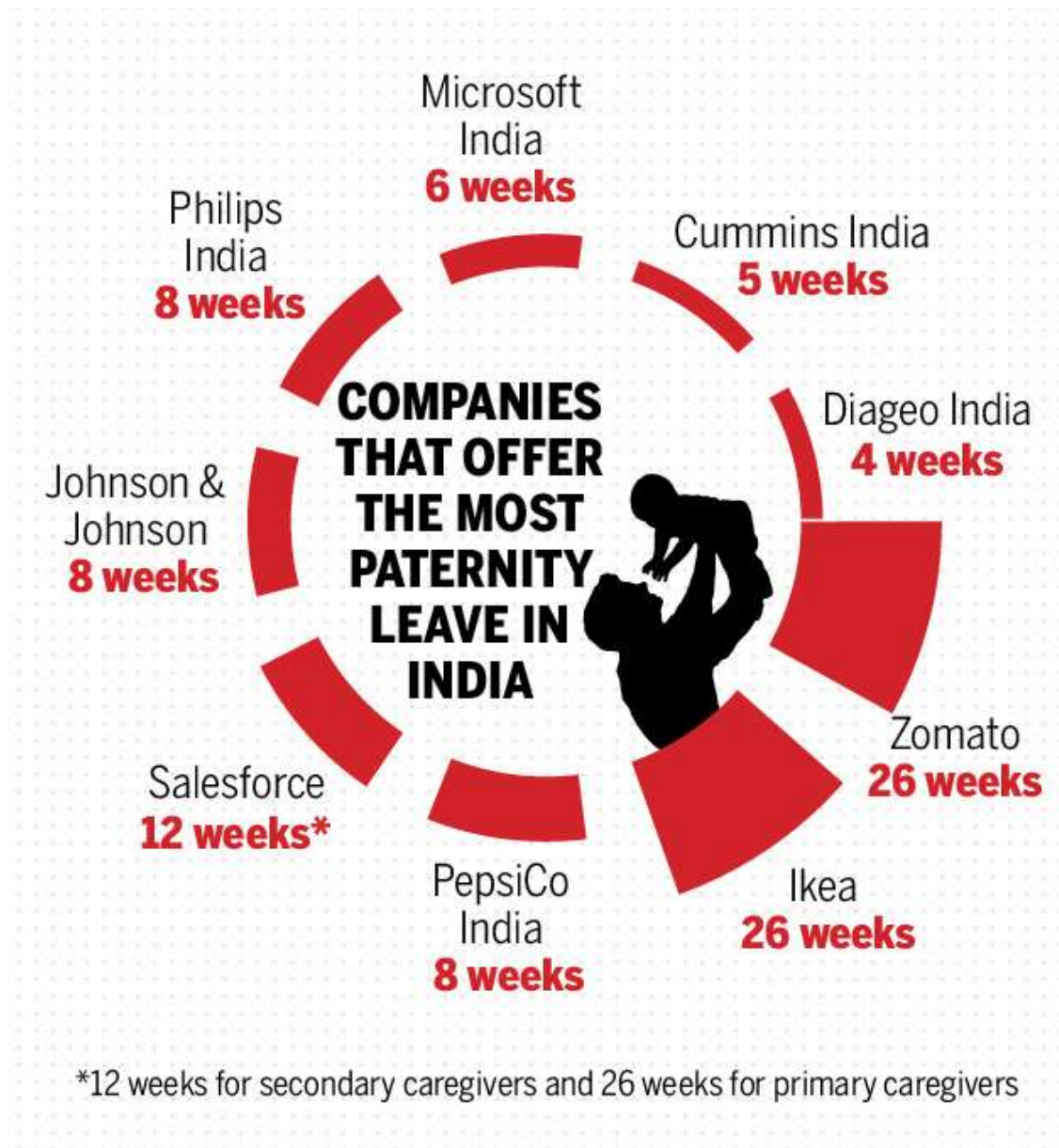
Getty Images

<https://timesofindia.indiatimes.com/business/india-business/cummins-gives-30-day-paternity-leave/articleshow/57300776.cms>

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<https://timesofindia.indiatimes.com/india/meet-the-papas-who-got-took-paternity-leave/articleshow/69723008.cms>

Father Figures

**COMPANIES
LIKE IKEA,
MICROSOFT,**

Salesforce,
Juniper
Networks, Tesco
Bengaluru,
Schneider
Electric, and TVS
Motor have rolled
out progressive
paternity policies

MERCER INDIA

has seen the
percentage of
organisations in
India providing
paternity leave
rise from about
60% in 2014 to
75% in 2016

**ACCORDING TO A
MERCER REPORT**

last year, India is
among the top 10
countries with the
highest percentage
of companies
providing paternity
and adoption leaves
above the statutory
requirement in
the world



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<https://economictimes.indiatimes.com/jobs/companies-go-liberal-in-giving-time-off-to-new-dads/articleshow/60368366.cms?from=mdr>



<https://timesofindia.indiatimes.com/india/meet-the-papas-who-got-took-paternity-leave/articleshow/69723008.cms>

Videos Link:

The Economist: : <https://www.youtube.com/watch?v=oPjtoZJAJi4>

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Dad University: <https://www.youtube.com/watch?v=46ui4jr9EP0>