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General Studies—II

Time : 3 Hours]

[Full Marks : 300

Section—I

खण्ड—I

1. Write short answer of the following questions :

निम्नलिखित प्रश्नों के लघु उत्तर लिखिए :

(a) ☒ Analyse critically the dynamic secularism in India.

भारत में गत्यात्मक धर्म-निरपेक्षता को आलोचनात्मक दृष्टि से विश्लेषित कीजिए।

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Secularism refers to
a political philosophy where
State and religion are separate,
religion being personal matter
of citizen.

— India has adopted dynamic
secularism which mean it
is positive concept where—

① Indian constitution upholds
all religion ~~but~~ without
favouring any one.

② Judiciary can interfere in
religion to protect fundamental
right.

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(b)

Constitutional provision for secularism

- ① Preamble - mentions secularism
- ② Art. 14, 15, 16 - Right to equality
- ③ Art. 25 to 28 - Right to freedom of religion.
- ④ Art. 44 - Uniform civil code

Supreme Court in Young Indians
Lawyers Association (Sabarimala
case), 2018 - Intervened in
Hindu religion to protect women's
right to equality and religious
freedom.

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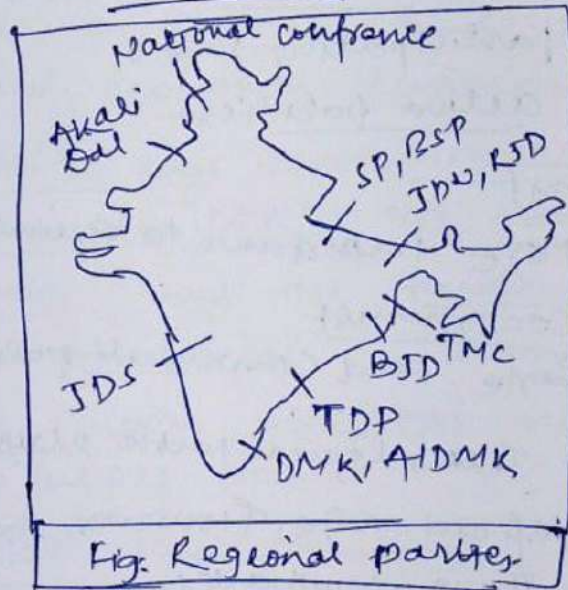
(b) ☒

Regional politics plays its role in India. Explain.

भारत में क्षेत्रीय राजनीति अपनी भूमिका निभाती है। व्याख्या कीजिए।

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Regional parties are those
political parties who operate
in specific regions or states and
raise local issues.



Role of Regional parties

- ① Agent of political socialisation
for various groups of people.

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② Represents multi-ethnic,
multi-religious, multi-linguistic
societies.

③ Democratic decentralisation
and demand for autonomy.

④ development on local level.

⑤ counter secessionist tendencies
by participating role in
active politics.

Criticism

① More importance to regional issues

② Secessionist

③ Caste and communal politics.

Thus, Regional parties play
significant role. However, they
also have drawbacks.

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(c) ☒

The positive directions in the Constitution of India are as a charter of social and economic democracy in the country. Explain with examples.

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भारत के संविधान में सकारात्मक निर्देश देश में सामाजिक और आर्थिक लोकतंत्र के एक चार्टर के रूप में हैं। उदाहरण सहित व्याख्या कीजिए।

Article 36 to 51 in part-IV
of Indian constitution gives
positive direction and works
as a charter of social
and economic democracy.
Art 37 says - that Directive
principles (DPSP) are non-justi-
crable but are fundamental
in governance. — Thus it
put moral obligation on state
to fulfill them.

[DPSP: social democracy]

① Art. 38 - to secure a social
order to promote welfare
and minimise inequalities

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in income, status and opportunities.

2. Art. 39 (a) to secure adequate means of livelihood.

(b) - equitable distribution of material resources

(c) prevention of concentration of wealth and means of production.

3. Art. 46 - to promote educational and economic interests of SC and ST and other backward class.

[App: economic democracy]

Art. 41, 42, 43 - Improving workers conditions and securing a decent work.

Art. 48 - Agriculture development

B.R. Ambedkar said political

democracy cannot last until there lies social democracy at its base. Hence social and economic democracy is very vital.

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(d) ☒

Explain the judicial review jurisdiction of the Supreme Court of India.

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भारत के सर्वोच्च न्यायालय के न्यायिक पुनरावलोकन क्षेत्राधिकार को स्पष्ट कीजिए।

Article 13 says that laws
that are inconsistent with or
in violation with fundamental
right will be null and void.
Hence, it gives wide power
to SC of Judicial Review under
Article 13 and 32 (Judicial
Remedy)

Judicial Review jurisdiction of SC

- In Maneka Gandhi case, 1978,
SC said that power of Judicial
review is basic structure.

eg In 2015, SC struck down
99th CAA, 2014 which sought
to replace collegium system with
NJAC.

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- However, Judicial review of SC of India is narrower due to the "procedure established by law" clause in Art 21.

- SC, while checking legality of a law only checks -

(a) whether exists a law that allows executive to take fundamental rights

(b) whether parliament has followed correct procedure.

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- (e) ☒ Bihar has witnessed improvement in its political culture in last decades. Give examples.

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बिहार ने पिछले दशकों में अपनी राजनीतिक संस्कृति में सुधार देखा है। उदाहरण दीजिए।

Bihar has long been seen as caste politics caste added with money power and criminalisation of power. Although it holds true to such extent, however, Bihar has witnessed improvement in its political culture.

eg In 2015 state assembly election, Mahagathbandhan fought on real issues and gave saat Nischayan - This was developmental manifesto.

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In election of 2020, - leaders
talked about giving 10 leave
days.

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2. (a) ☐

"Paramountcy of National Interest is enshrined in the Zonal Councils in the country." Examine critically, the nature and working of the Zonal Councils in India, in the light of the above statement.

19+19=38

"क्षेत्रीय परिषदों के अंतर्गत देश में, राष्ट्रीय हित की सर्वोपरिता प्रतिष्ठापित है।" भारत में क्षेत्रीय परिषदों की प्रकृति एवं कार्यशैली का उपर्युक्त कथन के परिप्रेक्ष्य में, आलोचनात्मक दृष्टि से परीक्षण कीजिए।

Or / अथवा

(b) ☒

Caste plays a role in Indian politics. There is a change in its functioning over the decades. How do you look at its changing role over the last many decades? Does the logic of development subside the character of caste? Give your reasons.

38

जाति भारतीय राजनीति में एक भूमिका निभाती है। दशकों में इसके कामकाज में बदलाव आया है। आप पिछले कई दशकों में इसकी बदलती भूमिका को कैसे देखते हैं? क्या विकास का तर्क जाति के चरित्र को कमजोर करता है? अपने कारण दीजिए।

The famous saying that 'People in India don't caste their vote, they vote their caste' is very true in Indian political scenario. Caste is an endogenous group characterised by hierarchical set up. Over the years it has shaped political landscape profoundly.

Rajni Kothari, writes in his book 'Politics in India' that

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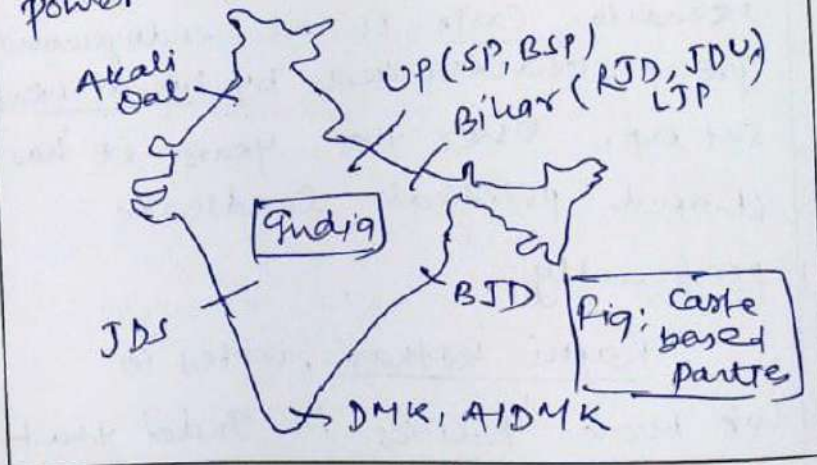
politicisation of caste has shaped
Indian politics to a great
extent.

Role of caste in Indian politics

① Politics functions in society
- Hence, caste interests of voters
got reflected ~~by~~ in politics.

② Caste based parties

- due to universal adult
suffrage and interest of lower
caste voters to get political
power.



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③ Caste based party alliances

eg) in 2020 Bihar assembly election

NDA - BJP - Upper Caste

JDU - BC

Hindustani Awam

Morcha (HAM) - Dalit

④ Candidate selection

eg) according to Lok Sabha CDS

BJP gave 50% tickets to
upper caste

BJP gave half of tickets
to Yadav and Muslims
(MY)

⑤ Voting behaviour

- in 2020 Bihar election,

upper caste overwhelmingly
voted for BJP.

- Yadav, Muslims for BJP.

In recent Karnataka state
election,

AHINDA (Dalits, Muslims and BC)

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voted for congress.

Change in functioning over the decades

① After Mandal commission, which
gave 27% reservation to OBC, caste
politics has intensified all
over India.

② Supreme court in Indira Sahni
case, 1992 ruled -

- (a) 50% cap on reservation
- (b) creamy layer should be
removed from caste based
reservation
- (c) reservation can not be
based solely on economic
criteria.

However, SC validated
OBC reservation. This paved
the way of further caste politics.

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③ Recently, [SC] in Janki Agrawal
v. UOI case, 2022 - Validated
103rd constitution amendment
which gave EWS reservation

④ Caste has emerged as strong
pressure group

(eg) Ramprasad for Kapoor
Dalit Panthers etc.

⑤ However, in recent times, due
to developmental politics and
nationalism, caste politics has
weakened.

(eg) Defeat of caste based
parties in UP and Bihar
in Lok Sabha elections,
2019.

Development subverts the
character of caste

Argument in favour (Yes)

① People focusing on national
issues rather than caste.

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② In Bihar, 2015 State election, ~~MA~~ Mahagathbandhan gave Sant Nischay-1, which helped in winning.

③ Recently in Karnataka, people voted for real issues such as inflation, monthly income etc.

(Arguments Against)

① Various caste based parties are in power. eg. RJD in Bihar, DMK in Tamil Nadu.

② social engineering on caste lines is prime technique to win election.

Mahatma Gandhi said -
Politics without principles, as one of the seven sins. Hence, caste politics should be banned to make a healthy and vibrant democracy.

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3. (a) ☐

Election Commission of India has played an important role in conducting the elections. Critically examine its role in making the elections free and fair over the decades. Compliment your answer with reference to the conduct of elections in pre-Sheshan and post-Sheshan era in Bihar. How does it contribute to the strengthening of the democracy?

38

भारत के चुनाव आयोग ने चुनाव कराने में महत्वपूर्ण भूमिका निभाई है। दशकों से चुनावों को स्वतंत्र और निष्पक्ष बनाने में इसकी भूमिका का आलोचनात्मक परीक्षण कीजिए। बिहार में शेषन-पूर्व और शेषन युग के बाद चुनावों के संचालन के संदर्भ में अपने उत्तर के कारण दीजिए। यह लोकतंत्र को मजबूत करने में कैसे योगदान देता है?

Or / अथवा

(b) ☒

Discuss the composition and powers of the Rajya Sabha and identify its role as the Second Chamber of the Parliament.

38

राज्य सभा की संरचना एवं शक्तियों का विवेचन कीजिए तथा संसद के द्वितीय सदन के रूप में इसकी भूमिका का उल्लेख कीजिए।

Article 80 of the Indian Constitution talks about composition and power of Rajya Sabha. It is the upper house of parliament and represents states and union territories (UTs) in federal set-up.

Composition of Rajya Sabha.

maximum seat = 250.

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states and UT = 278
nominated by president = 12
currently,
states = 229
UT = 4
Nominated = 12
245

Election of members done through
proportional representation by
single transferable vote.
- state legislative assembly
elected members participate.

Powers of Rajya Sabha

① Equal with Lok Sabha.

1.1] passing of ordinary bills,
financial bills etc

1.2] Impeachment of President

1.3] Constitution Amendment Act.

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1.4] Passing of resolution to
remove Judges of HC and SC.

1.5] Upholding emergency
and ordinance.

2. Unequal with Lok Sabha.

2.1] Money bill can be only
introduced in Lok Sabha.
Rajya Sabha cannot amend
or return.

2.2] Rajya Sabha can only
discuss Budget (Annual financial
Statement) but can not vote
on demand for grants.

2.3] Joint sitting is headed
by speaker of Lok Sabha.

2.4] Rajya Sabha can not
pass no-confidence motion to

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remove council of minister

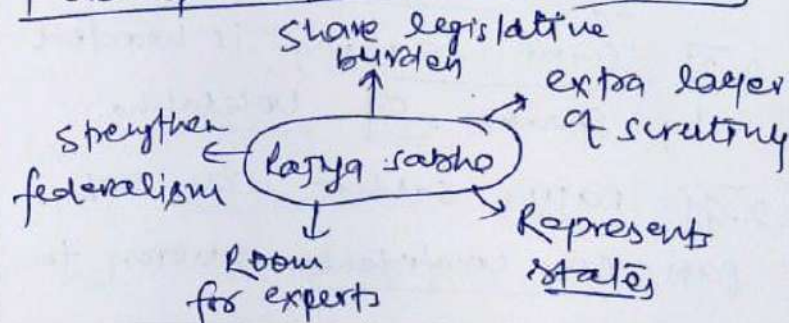
2. Special powers of Rajya Sabha.

2.1] Can pass a resolution
authorising parliament to make
act on state subjects.

2.2] All India services (212) - Rajya
sabha create new All India
services

2.3] Vice-President can be
removed only by Rajya Sabha.

Role of Rajya Sabha as second
chamber



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- ① share legislative burden
- certain bills such Ordinary bills, Constitution Amendments bill etc. can be introduced in Rajya Sabha.
- ② Extra layer of scrutiny - For most of the bills, assent of Rajya Sabha necessary. It takes first part of bills and scrutinise it.
- ③ Represents State - Hence states have a say in Parliament.
- ④ Room for expert - President nominate 12 members from art, culture or academy.
- ⑤ Strengthen federalism by giving priority to the voice of various states.

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However, its role has diminished over the years.

Criticism

- ① passing of bills as Money bill.
(eg) Aadhar Act, 2014.
- ② decline in no. of sitting.
- ③ Criminalisation - APR - 27.
- ④ Back door entry

Thus Rajya Sabha has become a useful chamber of parliament and helped to check tyranny of executive. However, its status should be strengthened to realise its goal.

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Section—II

खण्ड—II

4.

Write short answer of the following questions :

निम्नलिखित प्रश्नों के लघु उत्तर लिखिए :

(a) ☒

"National Logistics Policy, 2022 along with PM Gati Shakti Plan would revolutionise logistics efficiency in India." Elucidate.

8

"राष्ट्रीय लॉजिस्टिक्स नीति, 2022 प्रधानमंत्री गति शक्ति योजना के साथ भारत में लॉजिस्टिक्स दक्षता में क्रांतिकारी बदलाव लाएगी।" स्पष्ट कीजिए।

Logistics cost 14% to 18% of
India's GDP while global
average of 8%.

Hence logistics policy 2022
and Gati shakti plan was
launched to reduce logistic
cost and enhance competitiveness.
Revolutionize efficiency

① Warehousing, cold chain
storage are being built

② Reliance is building multi-
modal connectivity at Chennai
connecting Road, Railways and
Inland waterways

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(b) ☒

Explain how Atal Innovation Mission (AIM) is promoting innovation and entrepreneurship across India. Discuss briefly various initiatives of Atal Innovation Mission like 'Mentor India', 'Atal Incubation Centres' and 'Atal New India Challenge'.

अटल इनोवेशन मिशन किस प्रकार पूरे भारत में नवाचार और उद्यमशीलता को बढ़ावा दे रहा है, व्याख्या कीजिए। 'मेंटर इंडिया', 'अटल इनक्यूबेशन सेंटर' और 'अटल न्यू इंडिया चैलेंज' जैसे अटल इनोवेशन मिशन की विभिन्न पहलों पर संक्षेप में चर्चा कीजिए।

8

Atal Innovation Mission has been launched by PMI to promote innovation and entrepreneurship.

Mentor India

— people of civil society will participate and mentor entrepreneurs and share knowledge and experiences.

Atal Incubation Centres

— start-ups in its initial days get handholding support

Atal New India Challenges

— start-ups all over India

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participate to solve specific
problems.

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Alkash Kumar, Rank-9 (68th BPSC) GS-II



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(c) ☒

Discuss the level of urbanization in Bihar. Explain at least two reasons for the low level of urbanization in the State. What are the recent initiatives taken by Bihar Government to push urbanization in the State?

8

बिहार में नगरीकरण के स्तर पर चर्चा कीजिए। राज्य में नगरीकरण के निम्न स्तर से संबंधित / कम-से-कम दो कारणों की व्याख्या कीजिए। राज्य में नगरीकरण को बढ़ावा देने के लिए बिहार सरकार द्वारा हाल ही में क्या कदम उठाए गए हैं?

Bihar is less urbanised
state with urbanisation of
11.34 according to 2011 census

SDG 11
mandates
governments
to build
sustainable
and resilient
cities.



Fig. Urbanisation trend in Bihar.

Reason for low urbanisation

- ① Dependence on Agriculture
- 70% population.
- ② Lack of Infrastructure
- drinking, road, waste

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Initiative of government

- ① Swachh Sahas, Vileshit Sahas.
- flagship scheme under Saaf
Nichay-2
- ② CM Shakti Paryat Yojana.
- ③ CM Shakti Pali-Gatipaleilekaran
Yojana.

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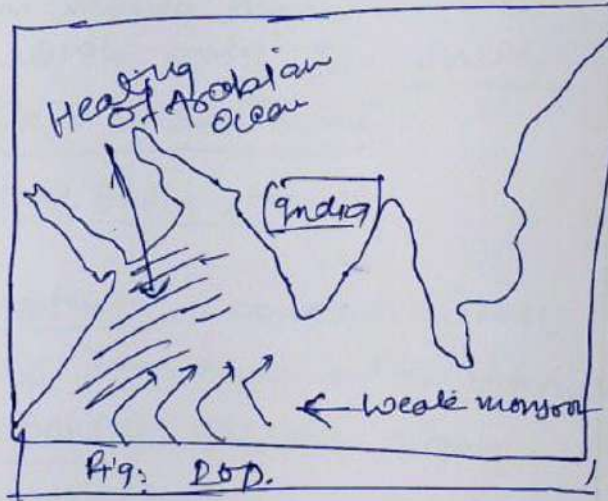
(d) ☒

What is Indian Ocean Dipole Movement? Explain how it was related to the erraticity of monsoons during the year 2022 in India. What was the effect of this erraticity on the food production and economy in India?

हिन्द महासागर द्विध्रुवीय गति क्या है? इसका वर्ष 2022 में भारत में मॉनसून की अनियमितता से क्या संबंध था, व्याख्या कीजिए। इस अनियमितता का भारत में खाद्य उत्पादन और अर्थव्यवस्था पर क्या प्रभाव पड़ा?

Indian Ocean Dipole (IOD)

movement is phenomenon of heating
Arabian ocean due to which
monsoon in India weakens.



IOD and Monsoon

When IOD happen monsoons

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Worlds became weak due to low
pressure over Africa coast.

Effect of Low

- ① Food insecurity due to low rainfall.
- ② Economic loss due to weak production of agriculture.

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(e) ☒

Discuss the incidence and effects of Rural-Urban digital divide in India.
Examine the steps taken by the government to reduce it.

7

भारत में ग्रामीण-शहरी डिजिटल विभाजन की व्यापकता और प्रभावों पर चर्चा कीजिए। इसे कम करने के लिए सरकार द्वारा उठाए गए कदमों का परीक्षण कीजिए।

Recently Oxfam India
released a report citing Rural
India and Urban India's digital
divide. According to it-

- 61% Urban population
owns mobile phone
while only 21% rural.

Steps taken by Government

- ① Digital India scheme
- ② Bharatnet - connecting all
village Panchayat with internet
- ③ JAM Trinity - Jan Dhan Yojana,
Aadhar - Mann

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5. (a) ☐

Examine India's global trade engagements in 2022. What are the various initiatives taken by India to enhance trade? Suggest some ways to increase India's global trade engagements in future.

38

2022 में भारत के वैश्विक व्यापार संबंधों की जाँच कीजिए। व्यापार बढ़ाने के लिए भारत द्वारा की गई विभिन्न पहलें क्या हैं? भविष्य में भारत के वैश्विक व्यापार संबंधों को बढ़ाने के कुछ उपाय सुझाइए।

Or / अथवा

(b) ☐

According to the report released by the Telecom Regulatory Authority of India (TRAI) in February 2022, the Bihar Service area has tele-density of 53.71% as against all-India average of 85.91% at the end of December, 2021. Indicate the reasons for this situation. What is its impact? Examine the steps that can be taken to improve the situation.

38

फरवरी 2022 में भारतीय दूरसंचार विनियामक प्राधिकरण (ट्राई) द्वारा जारी रिपोर्ट के अनुसार, दिसंबर 2021 के अंत में अखिल भारतीय औसत 85.91% के मुकाबले बिहार सेवा क्षेत्र में 53.71% टेली-घनत्व है। इस स्थिति के कारणों को इंगित कीजिए। इसका क्या प्रभाव है? स्थिति में सुधार के लिए उठाए जा सकने वाले कदमों की जाँच कीजिए।

Recently, Government of India introduced Foreign trade policy, 2021 to increase share of India's trade in global market upto 2 trillion dollar by 2030.

Trade engagement refers to export and import of goods and services of India with foreign countries.

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India's Global Trade engagement

- ① USA was largest trading partner of India with a global trade of \$119 billion dollar.
- ② China comes at second place with \$116 billion dollar in 2020-21.
- ③ India's regional trade with SAARC and BIMSTEC countries are low due to inadequate connectivity.
eg BIMSTEC countries account for 5% of India's total trade.
- ④ Recently, Russia has emerged a larger trade partner due to import of subsidised petroleum.
- ⑤ Trade deficit — India's trade deficit with China has reached

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to \$100 billion.

- ⑥ Free Trade Agreement - Signed with GAP and Australia to reduce tariff and non-tariff barriers.

Initiatives by India

- ① Atmanirbhar Bharat Mission
- government pushed for self-reliance and strengthening export.
- ② Make in India - launched in 2015. government is attracting foreign companies to establish factories in India.
eg Foxcon companies started Apple manufacturing in Chennai
- ③ Start-up India - India has become world's third largest

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start-up ecosystem. This will
help in increasing trade.

④ National logistics policy and
Gati Shakti

— logistics costs 14% to 18%
of GDP in India, however
global average is 8%.

— Hence, government is focusing
to reduce logistics cost to
make products competitive.

⑤ Karmah Videsh Yojna. — to make
India skill capital of world.

⑥ FTA — with UAE and Australia
— with UK is pending to
increase trade.

Challenges for Global trade of India

① High trade deficit

② Low quality product
manufacturing.

③ High manufacturing cost.

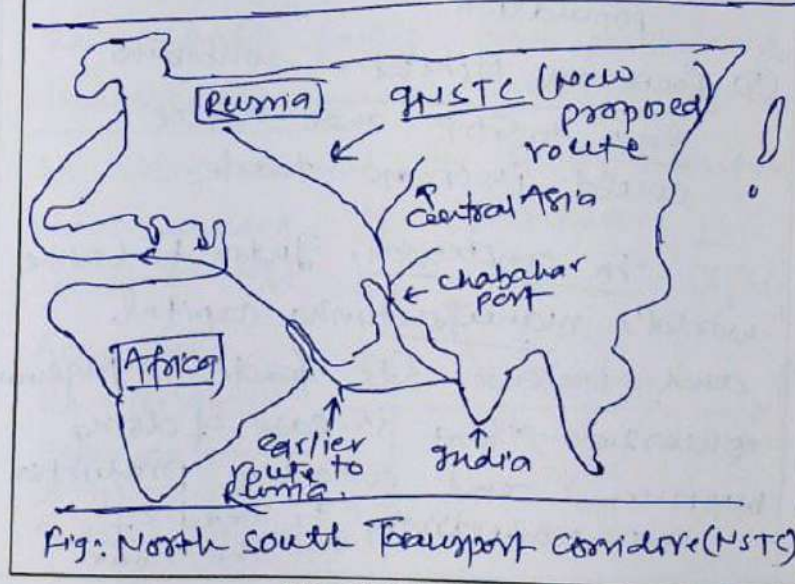
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- ④ Lack of infrastructure to support production.
- ⑤ Lack of connectivity with Central Asian countries and south-east Asia to increase trade.

Ways to Increase India's global Trade engagement

- ① Build connectivity
eg. North-south Transport corridor.



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② Strengthen domestic manufac-
cturing
— through ease of doing
business reform.

③ World economic forum recommend
to invest in social sectors so
that skilled workforce could
increase trade.

④ Utilising demographic dividend
— 62.5% between 15 to 59 years
population

⑤ Focus on MSMEs — contributes
29% to GDP and hence
could increase trade.

In conclusion, India to become
world's manufacturing capital
and increase its trade engagement.
concentrated effort in ease of doing
business and enhancing production
and productivity is need of
the hour.

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6. (a) ☐

"Blue economy is identified as one of the ten core dimensions for national growth." In the light of the above statement, discuss its significance for the economy and list the steps taken by India to promote the blue economy. Are they sufficient?

"नीली अर्थव्यवस्था की पहचान, राष्ट्रीय विकास के दस मुख्य आयामों में से एक के रूप में की जाती है।" उपर्युक्त कथन के आलोक में, अर्थव्यवस्था के लिए इसके महत्व पर चर्चा कीजिए और नीली अर्थव्यवस्था को बढ़ावा देने के लिए भारत द्वारा उठाए गए कदमों की सूची बनाइए। क्या वे पर्याप्त हैं?

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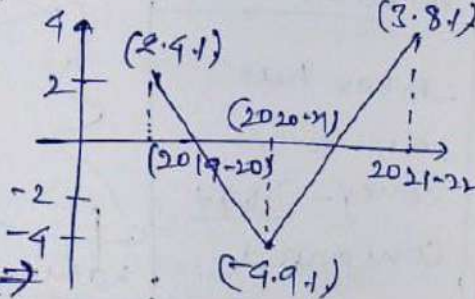
On the basis of raw materials, divide Bihar into forest-based industries, agro-based industries and mineral-based industries. Substantiate your answer with neat sketches depicting the location of those industries. 12+14+12=38

कच्चे माल के आधार पर, बिहार को वन-आधारित उद्योगों, कृषि-आधारित उद्योगों और खनिज-आधारित उद्योगों में विभाजित कीजिए। उन उद्योगों की अवस्थिति को दर्शाने वाले स्वच्छ रेखाचित्रों द्वारा अपने उत्तर की पुष्टि कीजिए।

SDG 9 mandates government to achieve faster and sustainable industrial growth. Industry sector

is very crucial for Bihar economic development. It contributes 16% to state GDP.

According to Bihar economic survey, industry growth

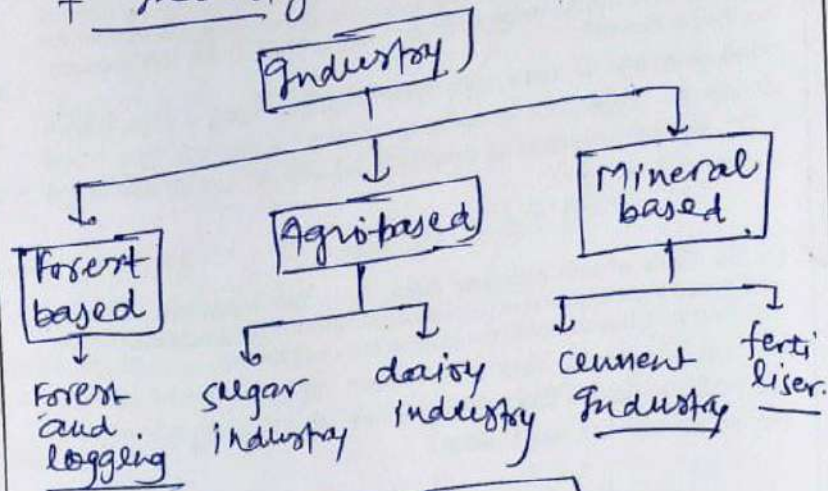


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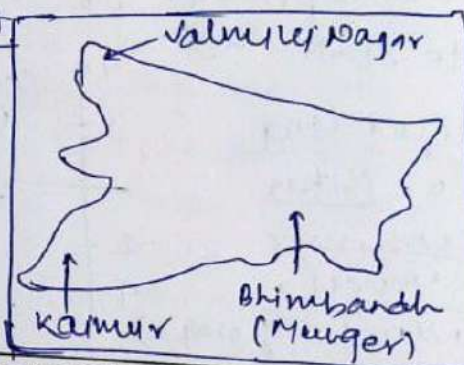
On basis of raw material, division
of Industry



① Forest based industry

According to Bihar Economic
Survey (BES) 2021-22, forest
and logging contributes to 1.6%
to state GVA

Bihar has
low forest
cover - 7.84%
compared



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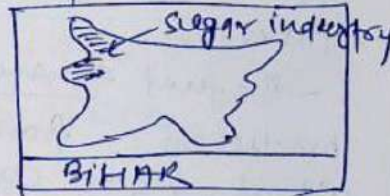
to India's 24:

- However, match industry,
wood industry etc. are situated
Near Hazipur, Darbhanga etc
- Tribals communities are also
engaged in forest based medicine

2. Agro-based Industries

2.1] Sugar industry - 2.3+ Area of
Bihar is under sugarcane
cultivation. In 2021-22 45.6 lakh
tonn sugar was produced.

There are 9
sugar factories
operational.
And Bihar is 6th largest
producer



(Scheme)

Chief Minister Ganua Vikas Yojana,
District - West Champaran, East
Champaran, Gopal Gang.

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2.2] Dairy Industry - Bihar

produced 119 lakh tonne of.
milk in 2018-22 (BEs).

COMFED is nodal agency
for dairy development. There
are 9 units of dairy industry
operation. Products - milk, ghee,
curd, sweets etc.

2.3] Ethanol Industry. Recently,

Bihar established India's
first ethanol plant in Purnea.
More than 30,000 crore has been
invested.

- Biofuel ethanol will be
produced from maize, Rice,
wheat, sugar cane etc.

3] Mineral based Industry

- Although Bihar is mineral
rich region. But some mineral

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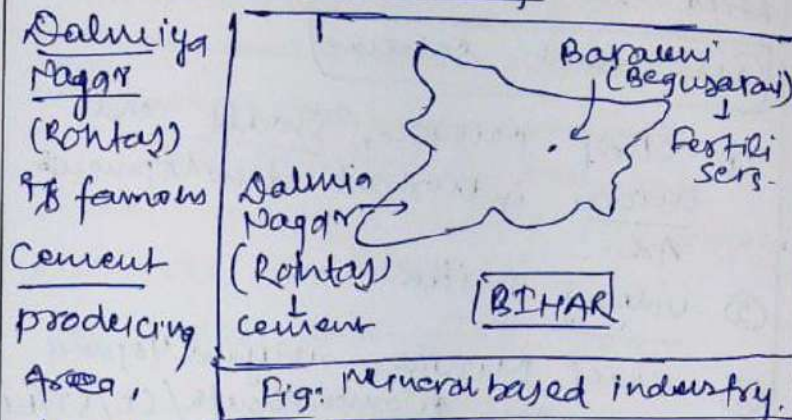
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based industries has been set-up

3.1] Cement Industry



Limestone is found there, which is raw material of cement.

3.2] Fertilisers industry

— Barauni (Begusarai) produces fertilisers — urea.

These two are famous mineral based industries, however small scale industries are situated in Patna, Gaya, Banke, Dumra etc.

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~~In conclusion~~, Bihar has
still low industrial growth.
Government Scheme

- ① Chief Minister small and micro industrial development
Plan.
- ② Udyog Mitra
- ③ Chief Minister Udyami Yojana
— for Women/Youth/SC/ST/BC
- ④ Bihar Start-up Policy, 2022
- ⑤ Bihar Industrial Investment
Promotion (Leather and Textile)
Policy, 2022.

Fast and resilient industrial
growth is need of the hour
for Bihar to reap its demo-
graphic potential and reduce
unemployment.

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बने सही बॉक्स
में Tick (✓) का
निशान लगावे।
Mark Tick (✓) in
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Question No.

47

Section—III

खण्ड—III



इस हिसाबे में
उम्मीदवार
कुछ न लिखें
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7.

Write short answer of the following questions :

निम्नलिखित प्रश्नों के लघु उत्तर लिखिए :

(a) ☒

What do you understand by Indigenization of Technology in Indian context?

भारतीय परिप्रेक्ष्य में 'तकनीक (प्रौद्योगिकी) का स्वदेशीकरण' से आप क्या समझते हैं?

Indigenization of technology means making disruptive technologies such as AI, Robotics etc. as per India's own need and becoming global players.

① AI - India should develop its own AI.

② BharatOS - operating system of India

③ Defence - Agri - Veteran ,
LCA Tejas

④ DRDO is developing (Pragati) - manned mission with indigenous technology.

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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प्रश्नों के सामने
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निशान लगावें।
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0/3/2023
प्रश्न
बॉक्स
में
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है
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में
लिखें

⑤ Health - Serum Institute - Vaccine
developments
eg. Covishield.

अप्रयुक्त स्थान को क्रॉस (X) कर दें।
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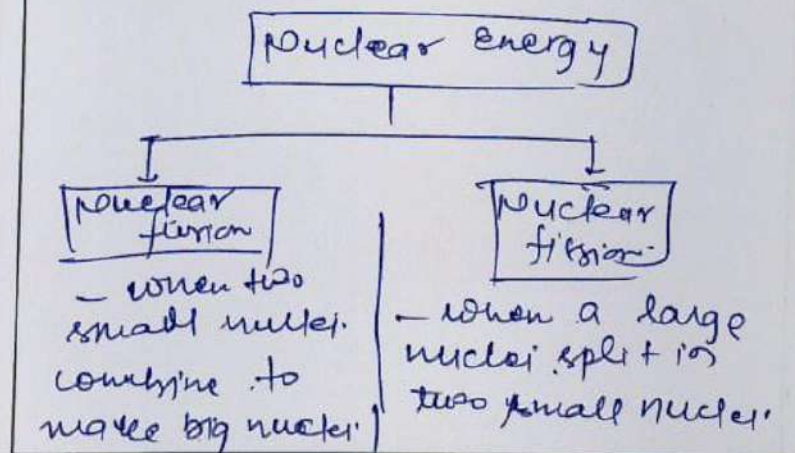


(b) ☒

Explain why it is necessary for India to expand its nuclear energy program to meet the growing energy needs. Also write the precautions needed in nuclear program.

व्याख्या कीजिए कि बढ़ती ऊर्जा आवश्यकताओं को पूरा करने के लिए भारत के लिए अपने परमाणु ऊर्जा कार्यक्रम का विस्तार करना क्यों आवश्यक है। परमाणु कार्यक्रम में आवश्यक सावधानियाँ भी लिखिए।

Nuclear energy refers to generating electricity through nuclear fusion or fission reaction. SDG mandates countries to provide affordable and clean energy to every household.



अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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प्रश्नों के सामने
दिए सही बॉक्स
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इस स्थिति में
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प्रश्नों के सामने
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Necessity of nuclear energy

- ① 85% import of petroleum -
high trade deficit
- ② Meet Net zero target of
2070
- ③ Energy demand will double by
2030 (IEA report)

Precautions

- ① Threat of nuclear disaster
- ② Harmful radiation
- ③ Costly

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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इस हार्डिके में
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(c) ☐

Write the difference between internet and intranet. Explain how internet and intranet has changed the life of human beings.
इंटरनेट और इंट्रानेट में अंतर लिखिए। व्याख्या कीजिए कि किस प्रकार इंटरनेट और इंट्रानेट ने मनुष्यों के जीवन को बदल दिया है।

7

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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प्रश्नों के सामने
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(d) ☒

Write a note on Technology-driven modernization of Bihar.
प्रौद्योगिकी-आधारित बिहार के आधुनिकीकरण पर एक नोट लिखिए।

7

Bihar is a technology
~~backward~~ state. Technology
modernisation is need of
the hour.

① Transport — Electric vehicle
and smart traffic management

② Smart cities — use of ICT
and satellite imagery to
develop,

③ Smart Agriculture
— biotechnology genes +
GIS + remote sensing,
e.g. drought resistant
crops

④ Smart Health
— using telemedicine

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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प्रश्नों के सामने
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इस हाफ में
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5 Education

Tele-education and remote
learning.

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(e) ☒

Discuss the role of nanotechnology in health sector. Mention with example how it is used for treatment of various diseases.

स्वास्थ्य क्षेत्र में नैनो-प्रौद्योगिकी की भूमिका पर चर्चा कीजिए। विभिन्न रोगों के उपचार में इसका उपयोग किस प्रकार किया जाता है, उदाहरण सहित उल्लेख कीजिए।

Nanotechnology refers to designing, producing very small machine i.e. upto 100 nm to meet today's demand.

Eg Carbon nanotube,
Nano wire.

Role of Nanotechnology in Health

① Nanomedicines

— precision delivery of drugs to damaged cell.

Eg Nanopill.

② wearable nano-devices can be inserted in body to monitor heart beat, blood pressure in real time.

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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प्रश्नों के सामने
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इस स्थिति में
कृपया न लिखें।
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- ④ Nanofibers is used in wound
dressing and restrict blood flow.
- ⑤ Cancerous cells can be killed
using nanobots.

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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निशान लगाये।
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इस हारिफे में
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8. (a) ☐

Along with the advancements in the field of computer and communication technology, India has faced severe data threat both in public and government domain. Discuss various areas of cyber threat and the measures taken by the Central Government in each of them with the help of existing technology.

36

संगणक एवं संचार प्रौद्योगिकी के क्षेत्र में प्रगति के साथ, आम जनजीवन एवं सरकारी तंत्र के परिक्षेत्रों में भारत डाटा-चोरी के गंभीर संकट से जूझ रहा है। डाटा-चोरी (साइबर थ्रेट) के उन विभिन्न क्षेत्रों की विवेचना कीजिए एवं इन सभी क्षेत्रों में केन्द्र सरकार द्वारा इसे रोकने के प्रयासों का वर्णन उपलब्ध तकनीकी संसाधन की सहायता से कीजिए।

Or / अथवा

(b) ☒

With the mission of providing potable water to every household on one hand and water scarcity on the face of growing population on the other, throw light on the role being played by the Indian Government for water conservation. Also discuss the scientific and technological developments which have been used by the State of Bihar in fulfilling the objectives of the Central Government.

36

एक तरफ प्रत्येक परिवार को पीने-योग्य जल की उपलब्धता का उद्देश्य एवं दूसरी तरफ बढ़ती आबादी के कारण जल की कमी को ध्यान में रखते हुए, जल संरक्षण में भारत सरकार की भूमिका पर प्रकाश डालिए। साथ ही केन्द्रीय सरकार के उद्देश्यों की पूर्ति हेतु बिहार राज्य द्वारा अपनाये गये वैज्ञानिक एवं तकनीकी विकास की विवेचना कीजिए।

SDG 6 mandates countries
to provide clean water to
every household by ~~2030~~ 2030.
Water scarcity is a ~~phenomenon~~
phenomena when adequate
water is unavailable to
sustain household, agricultural,
industrial or other activities.

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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दिए गए चिह्नों में
सही विकल्प का
निर्वाण लवाये।
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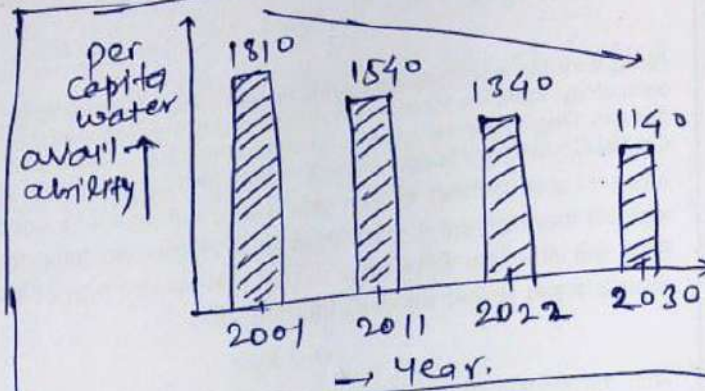


Fig: Water availability in

Water Scarcity India.

- After Independence per capita water availability has been reduced by 75%.
- According to Central Ground water Board, 256 out of 700 districts of India face water scarcity.
- According to NITI Aayog, 600 million people in India will face water scarcity by 2030.

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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Role played by Indian government for water conservation

- ① Tal Teerav Mission - Central government launched this mission to provide potable water to every household.
- ② Pradhan Mantri Krishi Sinchayee Yojana
- to provide assured irrigation to every field. (Har Khet ko pani)
- ③ Water Harvesting Mission
- Govt. is encouraging people and NGO to store rainwater and use it later.
- ④ Namami Gange Scheme
- government launched this scheme to conserve Ganga river as this river is major source of water in north India.

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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उम्मीदवार
गुप्त न लिखें
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⑤ ISRO recently launched
glaciers and water bodies Atlas
to monitor water bodies.

⑥ Wetland conservation scheme
govt. is conserving various
- wetlands which work as in
groundwater recharge.

⑦ Mission Life - Govt. is
nudging people to adopt
water conserving behaviour
such as - using low amount of
water.
- closing water sources after
use.
- water harvesting. etc

Scientific and technological
developed of Bihar government

① Geotagging of water bodies

② Use of ICT - Bihar government
is using ICT to address
leakage issues through water

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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Pipes:

③ GPS + Satellite Monitoring

- This technology can be used to monitor water sources.

④ Taj Teevan Hamiyali scheme

- flagship scheme of Bihar government to conserve water.

① water harvesting tanks are being building

② water trench are being made in plateau region

⑤ Interlinking of River - Ganga.

Damodar - Surarnarekha river link has been proposed to provide water to water scarce South Bihar. Koshi-Mechi River link is for North Bihar.

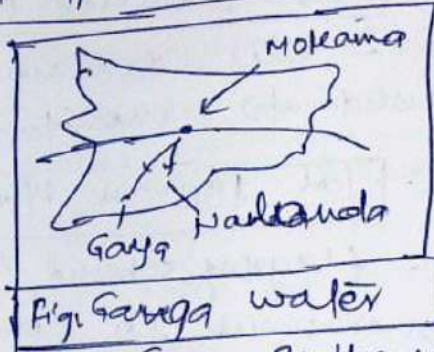
⑥ Nanotechnology - can be used to filter river water.

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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⑥ Ganga Jal Apurvi scheme

A well cap
tube well has
been built
near



Mokama to
lift water
from Ganga
and sent to Gaya, Nalanda etc.
to Gaya, Bodhgaya,
Nalanda.

⑦ Gayatri Kumbher Dam

— On Palghur river to conserve
water.

Thus, Bihar government is
proactively fulfilling water
conservation initiative of
central government.

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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