

Student Name - Roll No - 341365 Subject - GENERAL STUDIES - II Total Score : 156.00

SrNo	1) Q1a (8.00)	2) Q1b (8.00)	3) Q1c (8.00)	4) Q1d (7.00)	5) Q1e (7.00)	6) Q2a (38.00)	7) Q2b (38.00)	8) Q3a (38.00)	9) Q3b (38.00)
1	4.50	4.00	4.50	4.00	3.00	0.00	23.00	18.00	0.00

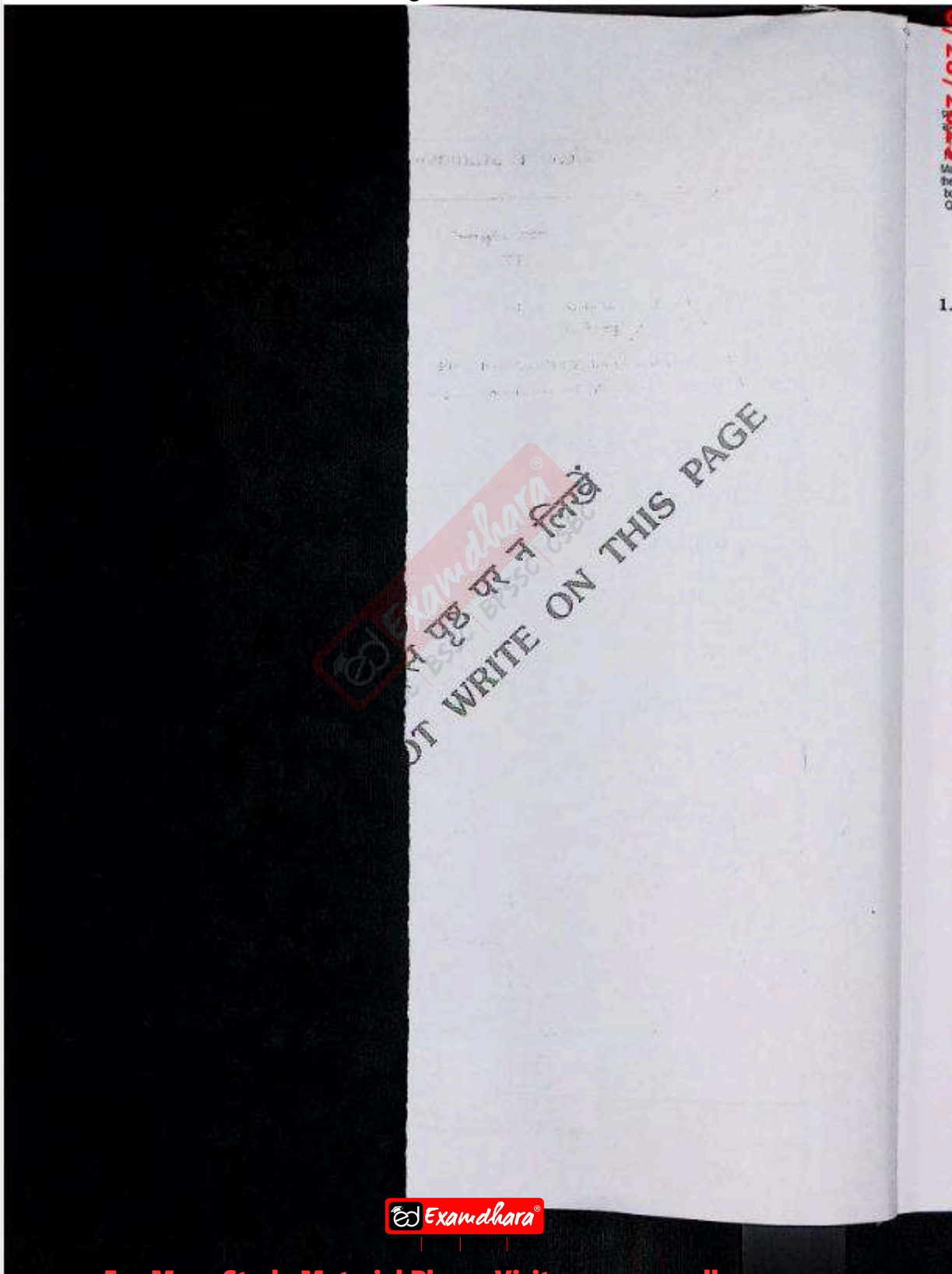
10) Q4a (8.00)	11) Q4b (8.00)	12) Q4c (8.00)	13) Q4d (7.00)	14) Q4e (7.00)	15) Q5a (38.00)	16) Q5b (38.00)	17) Q6a (38.00)	18) Q6b (38.00)	19) Q7a (8.00)
3.00	3.50	4.00	3.00	3.50	13.50	0.00	0.00	22.00	4.00

20) Q7b (7.00)	21) Q7c (7.00)	22) Q7d (7.00)	23) Q7e (7.00)	24) Q8 a (36.00)	25) Q8 b (36.00)
4.00	3.50	4.50	4.00	0.00	22.00



Aman Kumar, Rank 14 (68th BPSC) GS-II

can be
able of
state and
Article 25
Conscience
persons &
Secularism
Secularism
as dynamic
blind
an model.



प्रश्नों के सामने
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में Tick (✓) कर
निम्नलिखित प्रश्नों के
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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.

8

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

Secularism can be defined as principle of separation between state and religion. Example - Article 25 grants freedom of conscience & free practice, profession & propagation of religion.

Features of dynamic secularism in India

Indian Secularism can be regarded as dynamic as it is not a blind imitation of European model.

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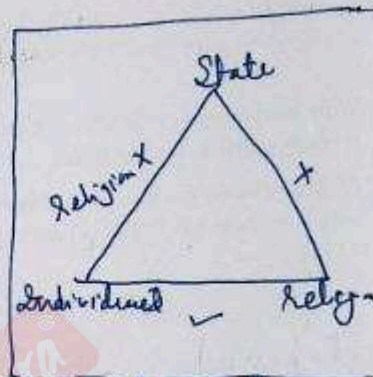
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Features of dynamic Secularism

① positive model

② equidistance model

Article 26 gives
powers to state to
open the gates of
temple to all
religion of India



③ Respects cultural diversity

④ Secularism as a means of multi-culturalism.

Even though it is
criticised for various reasons

like minority appeasement, impartial

etc, we must be proud of
the foresight of our forefathers

who saw India through a
lens of civilisational state, rather
than a narrow one

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(b) ☒ Regional politics plays its role in India. Explain.

8

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

For a subcontinent-sized
polity like India regional
politics is very important as it
✓ shows the democratic demands
made by people.

Role of regional politics

- ① Makes national parties
accountable.
- ② Mobilise on issues of local
development
↳ Recently Karnataka elections
brought issues of Drigayab,
✓ Nandini Dairy etc.
- ③ collaboration & complementarity
of national parties.

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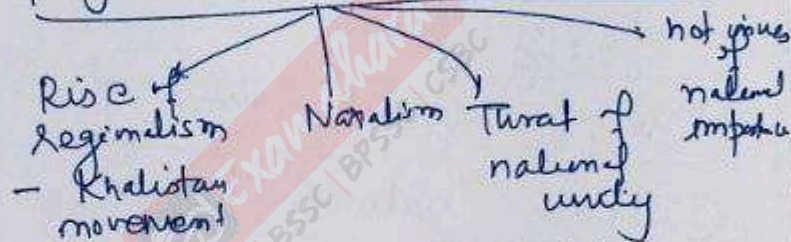
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Beban & regional politics

- ① demand of special category state by JDU.
- ② Caste as a factor
↳ Mahadalits, etc etc
- ③ Forces of regionalism

Negative aspect of Regional politics



Whether the framework of
constitution need to be formed.
So that democratic aspirations of
people can be met, as suggested
by Sarkaria Commission.

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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. 8
- भारत के संविधान में सकारात्मक निर्देश देश में सामाजिक और आर्थिक लोकतंत्र के एक चार्टर के रूप में हैं। उदाहरण सहित व्याख्या कीजिए।

✓ "There can be no political democracy without social democracy" - Ambedkar

The above words of father of constitution who described directive principles of state policy (DPSPs) as "novel features" holds very apt for India.

Directives in constitution of India

Article 37 - fundamental to governance

✓ Article 39 - Reduce concentration of wealth in some hands

Article 44 - UCC

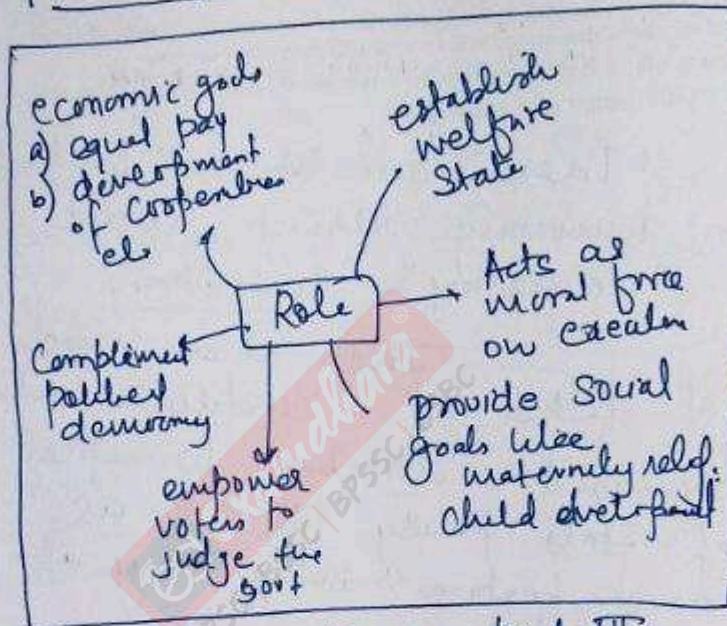
Article 45 - Education etc.

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Role of such decision



Hence part III
gives ideas of political democracy,
& part IV gives socio-economic
democracy. Together both forms
the conscience of constitution.

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(d) ☒ Explain the judicial review jurisdiction of the Supreme Court of India.

7

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

Judicial Review is
the process of reviewing legislative
acts or executive actions of
government by Judiciary. It
ensures checks & balances to
its working.

Role as constitutional forum

① Article 13 - law inconsistent
with fundamental law will
be void

② Basic Structure doctrine
If the act of parliament
provide the ultra-vires of
Constitution, it will be void

③ Insurg of writ (Article 32)
Right to constitutional remedies

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Impact of Judicial review

Positive	Negative
① executive accountability	① Breach of Separation of power
② Judicial activism	② 4.5 crore <u>pendency</u>
③ PIL	③ Intimidated confidence
④ electoral reforms.	
⑤ <u>De-democratisation</u>	

How Judicial review
must be used very judiciously
and with constitutional morality

✓ 4 Q1d

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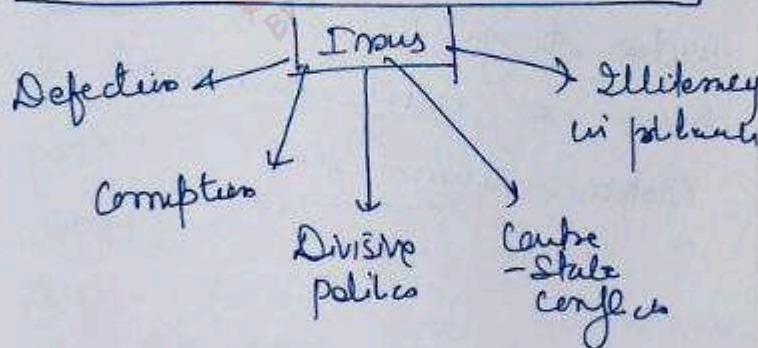
(e) ☐

Bihar has witnessed improvement in its political culture in last decades. Give examples.

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

Political culture of any state or nation determines how the politics operates and how it impacts the other aspects.

Issues of political culture in Bihar



Such issues were dominant in Bihar, but in

अप्रयुक्त स्थान को क्रॉस (X) चार दें।
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उम्मीदवार
गुप्त न हो।
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2.

Recent decade, much improvement
is done

- ① Healthy Coalitional Culture
- ② Resignation of controversy
- ③ Rise of youth politicians
- ④ Changing paradigm of RJD
- ⑤ Putting of development
over caste in many cases
Jobs were a priority in
2020 elections

But Bihar still has
votes to go before it could
have a single-mandate &
restore ancient glory.

अप्रयुक्त स्थान को क्रॉस (X) कर दें।
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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।

It is popularly said
that "caste forms the mosaic
of Indian politics." Indian
politics still relies alot on
identity based mobilisation. In
this regard caste politics is
a prominent feature in many
Indian states including Bihar.

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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इस कक्ष में
उत्तर नहीं लिखें।
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Salient features of caste politics in India

- ① works under the purview of
Caste system
↳ Caste system can be defined
as segregated division of
society based on notions of
purity and pollution, hierarchy
etc.
- ② Caste lives in sub-conscious
minds of Indians
↳ "Indians don't cast their
votes. They vote their caste."
- ③ Preferred by elites as a
means of mobilisation
- ④ Overlapping with other identities
like religion & ethnicity.

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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Changing role of caste in politics

- ① Caste has emerged as a means of mobilisation
 - ↳ earlier caste was understood as liability but later on it was realised as asset
 - ✓ ↳ Bahujan Samaj party (BSP) united Dalits in Uttar Pradesh
- ② Mandalisation of politics (1990s)
 - After the supplementation of Mandal commission report "Mandal and Kamandal" became the idiom of Indian politics.
- ③ Caste giving to formulators of classes in urban areas.
 - ↳ It is said that caste cannot be eradicated but

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its role would keep on
changing eg. Class.

③ Changing socio-economic profile
of legislators

(due to Article 331, now SC-ST
legislators have one-third share)

Recent developments in role
of caste in politics

① Many new caste alliances eg.
- MY - Muslims + Yadavs in Bihar
KHAM - Kshatriyas, harijans, ahmadiy
& muslims in Gujarat

② Social justice programmes
— even those parties who
didn't supported caste politics
now do so

③ Pushing the caste census

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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Recently Bihar's parties pushed
for it unanimously, showing
the dominant role

✓ But it was stayed recently
by Patna high court

④ Development over caste in
some elections
✓ election of 2014 at national
level was fought on
agenda of development

Development vs Caste

* Arguments supporting development
politics over caste politics

① Caste identities not strong
everywhere

✓ Eg. In States of South like
Maharashtra, development is preferred
by votes

② Modernisation logic
- The modernity will weaken the

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दिये गये चिह्नों में से
सही विकल्प को
चिह्नित करें।
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Social political nature of caste
and economy will be important

③ Youth voters
- Youth of this country favours
development

Argument against the above

1. Lokniti & CSDS survey shows
assembly elections are mostly
fought on caste

2. Caste alliances are formed
In Karnataka assembly elections,
Lingayat voters were pushed

3. India still feudalistic.

Overall, we can
say that on some contexts
development is priority, on
others caste is still dominant.
But we cannot ignore the
fact that caste is common
sense in Indian politics.

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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।

According to Article 324
of Constitution the super-
intendence, direction and control
of elections are vested in
election commission of India.
India today remains demo-
cratic and states like Pakistan,
Afghanistan etc fell into military
regimes, one of the role is
of election commission.

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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20

Role of election commission in making election free & fair

Supreme court in Raj Narain case said that free and fair election is basic structure of constitution. Election commission has followed the mandate through —

- ① Preparation of electoral rolls
One nation, one roll
Article 325 prohibit separate electorates
- ② Universal adult franchise
Under Article 326.
- ③ Steps was taken to reduce money & muscle power.
- ④ Moral code of conduct (MCC)

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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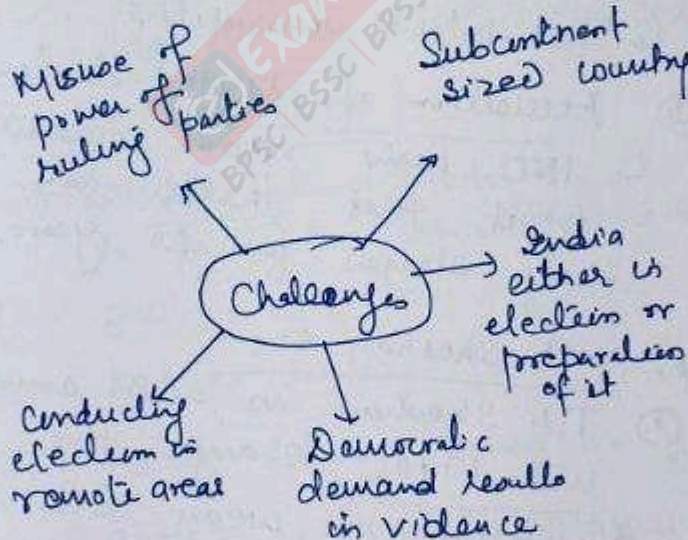
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↳ 1960 - Kerala elections saw
MCC coming

1976 - election commission
formalised it

↳ Talks of making it legally
enforceable

Challenges in conducting free &
fair elections



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Conduct of elections in Bihar

* Pre-Sheshan era :

- ① Composition of election commission
was single membered
↳ Hence discretion of one.
- ② Role of muscle power
↳ Loos of ballots by bullets
↳ "Bahubalis" dominance
- ③ Accusation of rigged election
↳ INC party was accused
for it that that's how
they stayed for 40 years.

* Post-Sheshan era

- ① T.N Sheshan in and around
mid-1990s, change the
perception of weak EC.
- ② Strict enforcement of MCC.

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- ③ party consensus for free & fair election
- ④ EVS coming in 2005/06
↳ reduced role of muscle power.

★ During covid times

- ① Bihar election of 2020 was conducted successfully
- ② free, fair & safe, election
↳ last phrase added to covid.

Recent initiatives

- ① Remote voting model
↳ to facilitate voters of migrant
- ② EPIC card
- ③ Aadhar linking to electoral roll
- ④ taking action based on MCC
- ⑤ SVEEP initiative for voter's awareness
↳ Recently Manohar Thakur

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in Bihar, was made icon.

Role of EC & Strengthening democracy

- ① electoral democracy is the way of participatory democracy
- ② Free and fair elections give democratic demand a real meaning
- ③ Without free & fair elections democracy is a farce.

To conclude, we can say that election commission of India is making a silent revolution with respect to democratic dream of India.

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

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India accounts for
13% of GDP as Logistics cost,
which is among the highest.
Hence many initiatives by
government is pushing for reform
features of National Logistics policy

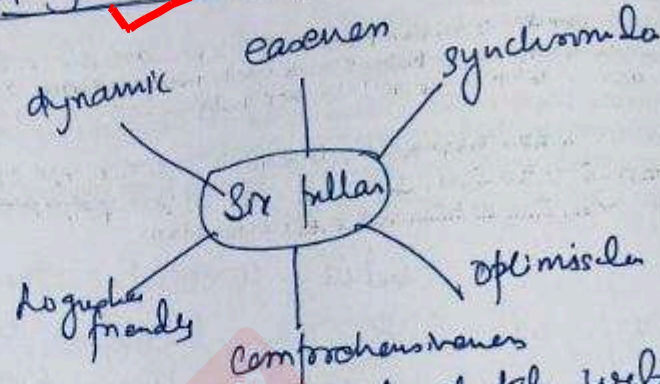
- ① aims to reduce cost by 8%.
- ② Auto-operability will be increased
- ③ Multi model connectivity
- ④ aim to improve the ease of doing business

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TPM Gati Shakti Plan



Hence Gati Shakti will
develop multi modal connectivity
Due to effort of these states
uniform as route to 38
CPS in logistics performance
index of world Bank (2020).

✓ 3 Q4a

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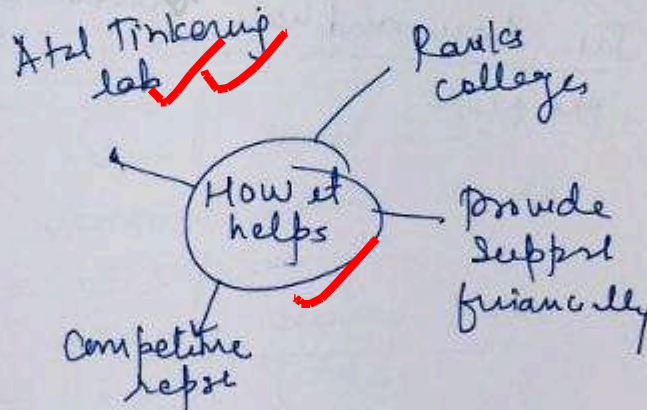
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- (b) ☒ Explain how Atal Innovation Mission (AIM) is promoting innovation and entrepreneurship across India. Discuss briefly various initiatives of Atal Innovation Mission like 'Mentor India', 'Atal Incubation Centres' and 'Atal New India Challenge'.

8

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।

Innovation is one of
the pushing factor of Development.
Hence Atal Innovation
mission by VITI Aayoj
is a key initiative.



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- * Atal incubation centre
- () Provides monetary support
 - () specialise & boundary challenge
- * Atal New India Challenge
- () through Hackathons
- * Mentor under
- () mentorship support
- Overall, these will
help realise the goal of
Jai Anusandhan given by
PM Modi.

✓ 3.5 Q4b

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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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?

Urbanisation can be defined as the process of formation of urban area. It is regarded as precursor to Development.

Level of Urbanisation of Bihar

① 2011 Census

- 11.3%

- national level - 32% (4th)

② Economic Survey 2022

- 15.3%

③ Economic Survey 2023

- 16.2% (latest)

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Reasons of low urbanisation

- ① Lack of availability of basic services
↳ water, sanitation etc
- ② Low level of industrialisation
- ③ Extra-state disparity
↳ North Bihar only 7% urban

Recent Initiatives

- ① Swachh Bharat Mission (Rural)
↳ Bihar govt pushy
 - ② Solid waste water management
 - ③ Entrepreneurship support.
- Hence Bihar is moving forward it

✓ 4 Q4c

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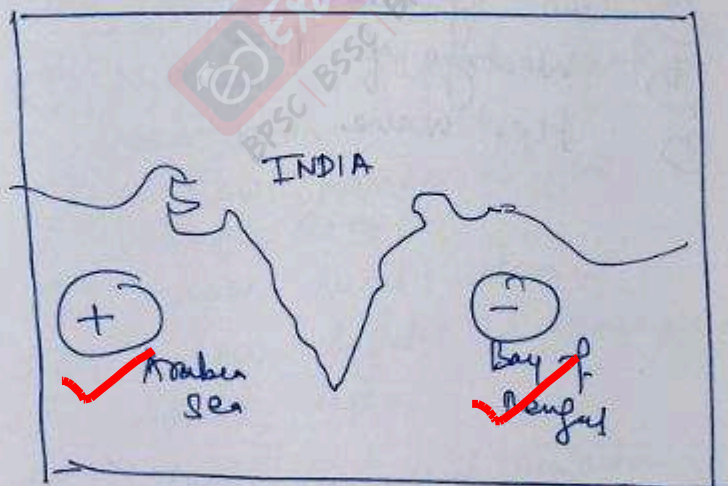


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- (d) ☐ What is Indian Ocean Dipole Movement? Explain how it was related to the erraticity of monsoons during the year 2022 in India. What was the effect of this erraticity on the food production and economy in India?

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

India monsoon is considered erratic due to several factors. One is Indian ocean dipole as below.



Hence due to uneven heating of two oceans of India, a dipole.

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Is created which affect
monsoon.

How it affect monsoon

- ① Reduces water that
comes to western side
- ② cyclones in Bay of Bengal

effect on food

- ① low agricultural production
- ② wastage of food
- ③ Heat waves.

✓ 3 Q4d

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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.

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।

Digital divide can
be regarded as a curse of
development of India as
shown during covid time.

The divide is observed as

- ① Number of Urban Internet users more
 - ② Low bandwidth in rural areas
 - ③ Low rural literacy
 - ④ Low digital literacy in rural areas
 - ⑤ Delay in implementation
- Hence the

✓ 3.5 Q4e

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digital divide is too
much.

Steps taken

- ① Bharat Net Scheme
↳ Gram panchayats to be
empowered with Internet
- ② PM-WANI Scheme
↳ WIFI connection
- ③ Common service centre.
We cannot have
a digital India - if we
have non-digital villages,
hence divide need to be
bridged.

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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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.

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।

38

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, India brought its much awaited Foreign Trade Policy (FTP) 2023, bringing into the light the various global trade engagements in preceding year, i.e. 2022. Trade and commerce is one of the visible instrument in achieving India's \$5 Trillion economy.

अप्रयुक्त स्थानों को क्रॉस (x) कर दें।
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Various global trade engagements in 2022

① Economic cooperation and trade agreement with Australia

- Also called as ECTA
- It is one of the bold trade agreements done in recent year to a developed country
- It will enhance trade in coking coal, Bauxite, Dairy products & benefit both

② CEPA with UAE

- Comprehensive economic & partnership agreement
- UAE is India's third largest trade partner
- CEPA would give 90% of Indian goods access to UAE according to trade expert

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③ Economic partnership with Mauritius

↳ On the lines of CEPA, this would help deepen trade ties with African country

④ Early Harvest deal with Britain

- Post-Brexit, Britain is in search of better trade engagements.
- Commerce minister Piyush Goyal is pushing for free trade agreement.
- But issues on IPR, phytosanitary measures etc.

⑤ India-EU Broad-based trade and Investment agreement

- Timeline:-

2007 - Negotiations began

2013 - Suspended due to not giving data sector status & dairy sector

2021 - Begins again

2022 - Ind-EU FTA negotiations reached.

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Various Initiatives taken to enhance trade

- ① Trade and technology council
with EU
- ② Establishment of many business
groups
eg - India-US business organisation,
with Japan etc.
- ③ RoDTP - provides remission
on duties for export
↳ WTO - complaint mechanism.
- ④ Pushing multilateral reforms
↳ IMF, WTO etc
eg - forming G-77 to secure
developing countries interest of
e-commerce transaction
- ⑤ Supporting global trade agreement
in 12th Ministerial conference

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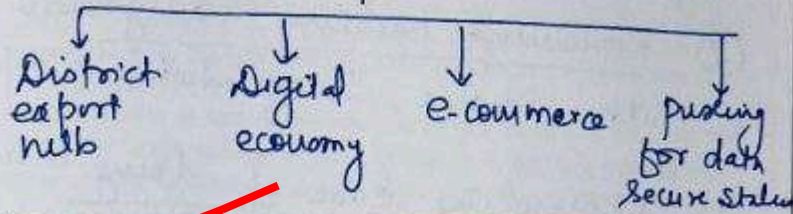
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Question No.

39

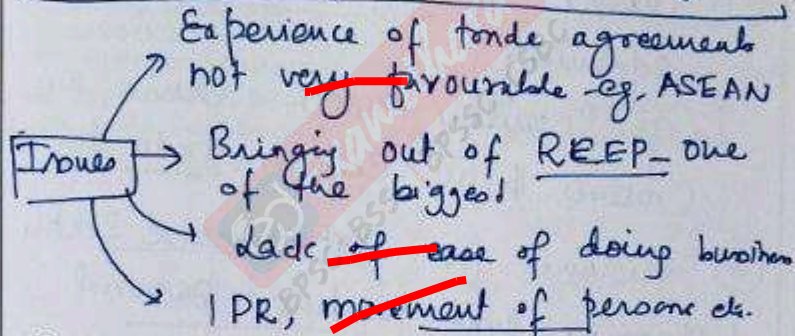


इस हस्तक्षेप में
उम्मीदवार
कुछ न लिखें
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⑤ Foreign trade policy 2023



Issues with global trade arrangements



Suggestions to increase India's global trade engagement in future

- ① Negotiating with equal footing
— In dealing with developed countries, India must not always be defensive about agriculture etc

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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प्रश्नों के सामने
दिए सही विकल्प
में Tick (✓) करें।
Mark Tick (✓) in
the appropriate
box in front of
Question No.

40

- Instead ~~decide~~ parameters in
first ~~instance~~
- ③ Reviewing existing arrangements
L with China, Bangladesh, Sri Lanka
etc
- ⑤ Promoting Ease of doing business
- ④ Taking strategic view of trade
agreements
L of Recently ~~with~~ China, we
Crossed \$100 Billion trade deficit
- ⑤ Pushing for data secure status
clearing long pending personal
data protection Bill.

Only an Atmanirbhar
Bharat can ~~stand~~ tall in trade
negotiations. Hence commerce and
foreign ministry should work in
tandem so that we ~~achieve~~ \$5
T trillion by 2025-26 and \$10 Tr by 2030.

✓ 13. Q5a

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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प्रश्नों के सामने
दिए गये बॉक्स
में Tick (✓) का
निर्देशन लगाइए।
Mark Tick (✓) in
the appropriate
box in front of
Question No.

41



इस हारिये में
उम्मीदवार
कुछ न लिखें
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write in this
margin.

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?

38

Or / अथवा

(b) ☒

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।

Industrial Sector can be described as backbone of ~~economy~~ but Bihar has very low Industrial base, i.e., 18.1% of GDP (economic survey of Bihar 2023). But due to geological reasons and agrarian abundance we still have a sound base which can be increased further.

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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प्रश्नों के सामने
धने सही बॉक्स
में Tick (✓) कर
विवरण लिखें।
Mark Tick (✓) in
the appropriate
box in front of
Question No.

42



इस स्थिति में
उम्मीदवार
कुछ न लिखें
Candidate
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write in this
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Distribution of Industries in Bihar.

Industries

Forest-based Industry

- ✓ Timber
- ✓ Minor forest produce
- ✓ Lac, glue etc

Agro based industry

- ✓ Jute Industry
- ✓ Sugarcane
- ✓ Food processing industry
- ✓ etc

Mineral based

- ✓ Limestone
- ✓ Pyrites
- ✓ Coal
- ✓ diamonds etc

Forest based Industry

- According to Indian State of forest report 2021, Bihar has 7.84% of forest cover

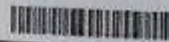
- The presence of open forest is dominated, followed by moderately dense and then dense.

- Forest resources can be described as

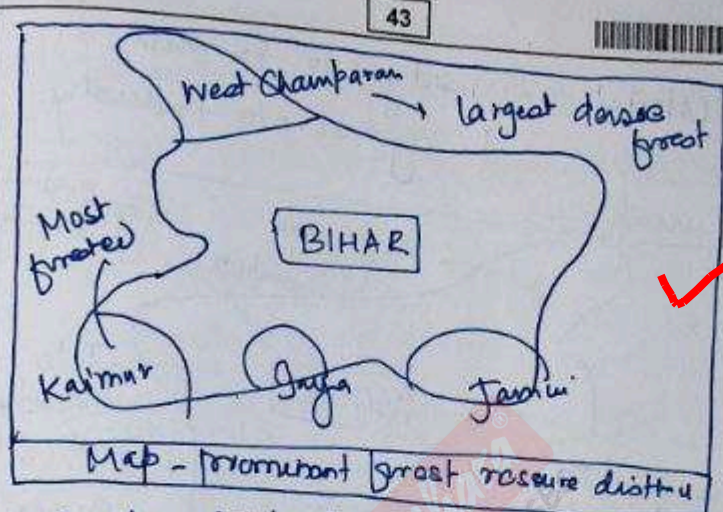
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प्रश्नों के सामने
दिए गये टिक (✓) का
चिह्न लगाएं।
Mark Tick (✓) in
the appropriate
box in front of
Question No.

43



इस हाथिये में
चप्पीलदार
दुख न लिखें
Candidates
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- Such districts produce Timber, lakh, gum etc
- PM - Van dhan Scheme, PESA Act 1996 etc have empowered forest dwelling people to help release the Industrial growth.

Agro based Industry

- Due to agriculture employs 70% of population Agro based Industries are prominent in Bihar
- Bihar Agriculture Investment promotion policy grant 15% of

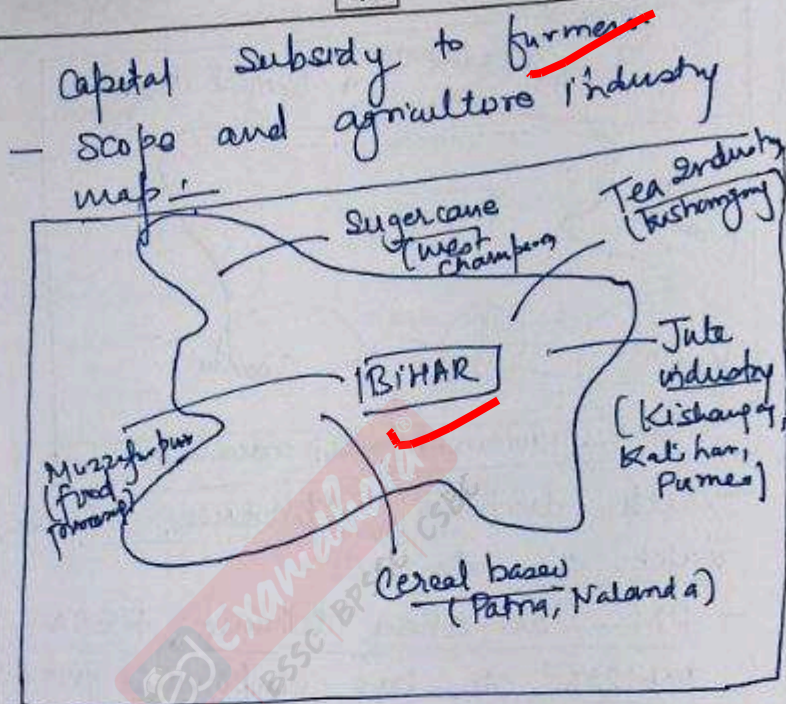
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Please Cross (x) unused space

प्रश्नों के उत्तर देने
के सही स्थान
में Tick (✓) का
प्रयोग करें।
Mark Tick (✓) in
the appropriate
box in front of
Question No.

44



इस स्थिति में
उम्मीदवार
गुप्त न होंगे
Candidate
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- a) ~~Sugar Industry~~ - 9 mills work but of 29 exist
- b) ~~Tea Industry~~ - Pottery block of Kishanganj account for 50% of tea
- c) ~~Jute Industry~~ - Bihar ranks second after W.Bengal
- d) ~~Cereal bases~~ - rice, wheat etc
- e) ~~Food processing~~ - very much scope

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
Please Cross (x) unused space

✓ 9 Q6b

प्रश्नों के सामने
दिए गये बॉक्स में
Tick (✓) का
चिह्न लगाएँ।
Mark Tick (✓) in
the appropriate
box in front of
Question No.

45



इस हासिले में
उम्मीदवार
कुछ न लिखें।
Candidate
should not
write in this
margin.

Mineral based Industries

- post partition, much of mineral based moved to Jharkhand
- But still have many mineral.
- Minerals & districts

① Limestone - Kaimur, Rohtas

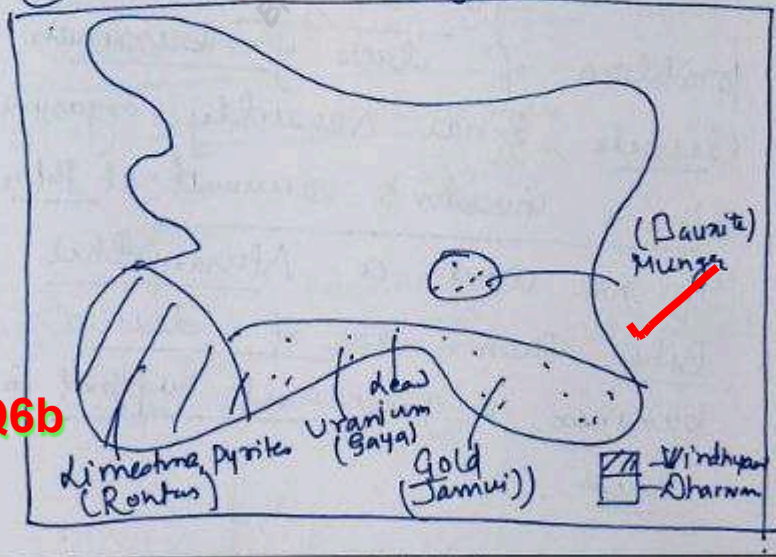
② Lead & Zinc - Banka, Gaya

③ Pyrites - Rohtas (Bihar's monopoly)

④ Gold - Jammu (GSI Survey)

⑤ Coal - Rajmahal hills

⑥ Bauxite - Munger. ⑦ Uranium - Gaya



✓ 6 Q6b

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
Please Cross (x) unused space

प्रश्नों के सामने
दिए गए बॉक्स
में Tick (✓) का
निशान लगाएँ।
Mark Tick (✓) in
the appropriate
box in front of
Question No.

46



इस हस्तिलेख
का उपयोग
कैंडिडेट
should not
write in this
margin

Issues with Industrial sector in Bihar and way forward

Issues	Way forward
1. Low investment by investors	→ Various promotion policies like <u>Ethanol</u> etc
2. Formalisation of economy low	→ Relaxing labour laws
3. Share of <u>agro-based</u> in total still low	→ active promotion through government <u>Udhyan Schemes</u>

To change the image
problem of lack of business
climate, Bihar recently organised
Bihar's investor's summit at Patna.
If we want a Atmanirbhar
Bihar then ease of doing
business & government support is
must.

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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प्रश्नों के सामने
दिए गये बॉक्स
में Tick (✓) का
चिह्न लगाएँ।
Mark Tick (✓) in
the appropriate
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Question No.

47

Section—III

खण्ड—III

इस स्थिति में
कमीटवार
पुस्तक न लिखें
Candidate
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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?

8

Any technology which
is not self reliant can be
a ~~bad~~ curse. eg. during India-
Pak war (1965), due to
lack of military technology
we were forced to negotiate.

Indigenization in different Sectors

① space technology
↳ ISRO now sixth largest
agency

② Food technology
↳ now we are self reliant
on food.

अप्रयुक्त स्थान को क्रॉस (x) चिह्न दें।
Please Cross (x) unused space

प्रश्नों के सामने
दिए गये विकल्पों में से
सही विकल्प चुनकर
Mark Tick (X) in
the appropriate
box in front of
Question No.

48

⑤ Quantum computing
(Recent released quantum
mixer push)

⑥ Computer
Super computing mixer
2016.

But in some like
nuclear, cryogenics etc we
have a long way to go.

✓ 4 Q7a

इस स्थिति में
उम्मीदवार
गुप्त न हो
Candidates
should not
write in this
marginal

3707/07/18

अप्रयुक्त स्थान को क्रॉस (X) कर दें।
Please Cross (X) unused space

प्रश्नों के सामने
दिए गए बॉक्स में
Tick (✓) का
चिह्न लगाएँ।
Mark Tick (✓) in
the appropriate
box in front of
Question No.

49



इस हुरिमे में
उम्मीदवार
कुछ न लिखें
Candidate
should not
write in this
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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।

Currently nuclear energy
contribute to less than 2% of
energy generation in India.
Hence, we need to expand it

Necessity to expand

- ① Sustainable development
- ② ~~Sustainable~~ ~~seth~~
- ③ filling panelament
 - ↳ 2050 - net carbon neutral
 - ↳ 2030 - 50% energy from non-fossil source
- ④ Vast demand of minerals

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
Please Cross (x) unused space

प्रश्नों के सामने
दिए गये टिक बॉक्स
में Tick (✓) का
चिह्न लगायें।
Mark Tick (✓) in
the appropriate
box in front of
Question No.

50



इस स्थिति में
उम्मीदवार
कुछ न लिखें।
Candidate
should not
write in this
margin

Nuclear plants also come with
Cautions —

- ① Nuclear disaster
↳ Chernobyl incident
- ② Treatment of waste water
↳ Fukushima issue
- ③ Concurrence of local water
in Kalpakkam

hence, nuclear
energy kitty should be
increased but cautiously.

✓ 4 Q7b

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
Please Cross (x) unused space

प्रश्नों के सामने
दिए गये विकल्पों
में Tick (✓) का
प्रयोग करें।
Mark Tick (✓) in
the appropriate
box in front of
Question No.

51



इस हस्तिलेख में
कम्प्यूटर
कुछ न लिखें
Candidate
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write in this
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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 इंटरनेट में अंतर लिखिए। व्याख्या कीजिए कि किस प्रकार इंटरनेट और इंटरनेट ने मनुष्यों के जीवन को बदल दिया है।

Internet is a
information superhighway &
is a biggest achievement of
21st Century.

Internet vs Intranet

- | | |
|---------------------------------|---|
| ① Can be accessed from anywhere | ① Need to be in limited geographical area |
| ② Can give good bandwidth | ② Can give better of connects |
| ③ Centralised de-centralised | ③ Centralised |

Hence Intranet is
a newer technology which
help in a change specific network.

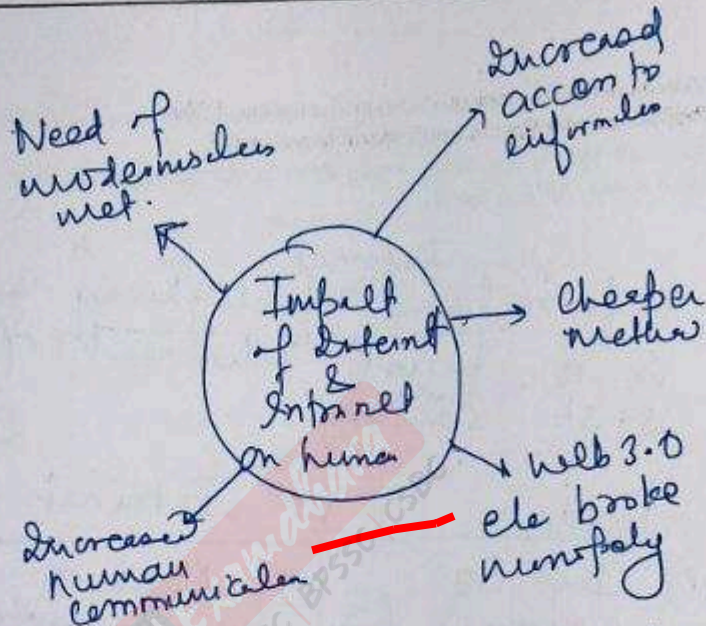
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प्रश्नों के समक्ष
दिए गए बॉक्स
में Tick (✓) का
चिह्न लगाएँ।
Mark Tick (✓) in
the appropriate
box in front of
Question No.

52



इस हाथि में
उम्मीदवार
गुरु न लिखें
Candidate
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But with advent of Generation AI tools like Chat GPT (open AI), Internet is advancing more keeping the evolution of technological man.

✓ 3.5 Q7c

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
Please Cross (x) unused space

प्रश्नों के सामने
दिए गये बॉक्स
में Tick (✓) का
चिह्न लगाइए।
Mark Tick (✓) in
the appropriate
box in front of
Question No.

53



इस स्थिति में
उम्मीदवार
कुछ न लिखें।
Candidate
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write in this
margin

(d) ☒

Write a note on Technology-driven modernization of Bihar.

प्रौद्योगिकी-आधारित बिहार के आधुनिकीकरण पर एक नोट लिखिए।

7

Technology is a great
equalizer. Hence technology
driven modernization is key to
Sushaan or good governance

Various technology initiatives
of Bihar

①

CCNTS

— Crime & criminal networks &
track system

Inter-operable criminal justice
system

②

Bhu-Samadhan app

— TO handle cases related
to land issues

③

HIT app

— Home visitation for
dug out cases

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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Examdhara®

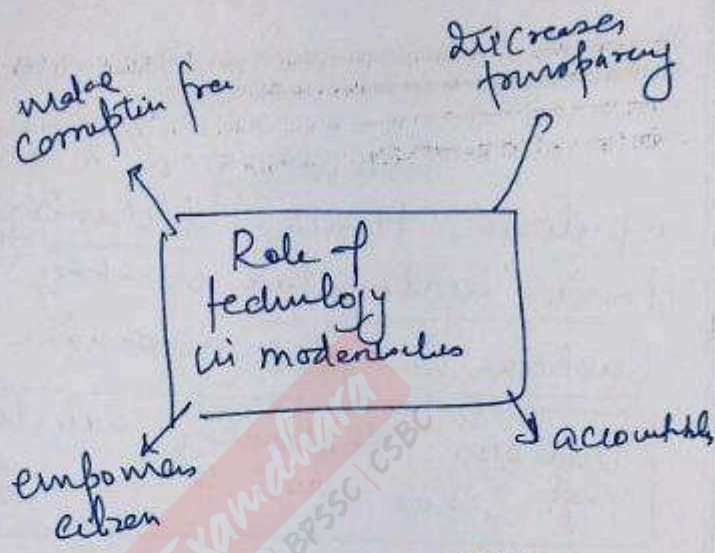
BPSC | BSSC | BPSSC | CSBC

प्रश्नों के सामने
सही सही बॉक्स
में Tick (✓) का
चिह्न लगाये।
Mark Tick (✓) in
the appropriate
box in front of
Question No.

54



इस स्थिति में
उम्मीदवार
गुप्त न लिखें
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Hence Bihar
government is pushing it for
Viksit & Modernised Bihar

अप्रयुक्त स्थान को क्रॉस (x) चार दें।
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प्रश्नों के सामने
दिए सही कोष्ठक
में Tick (✓) का
चिह्न लगाए।
Mark Tick (✓) in
the appropriate
box in front of
Question No.

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इस हस्तिले में
उम्मीदवार
कुछ न लिखें
Candidate
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write in this
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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।

Nanotech is a technology which deals with (1-270 nm). It is one of the booming sector.

Role of nanotech in Health

- ① Carbon nanotube
- ② Nano-medicine
- ③ Targeted drug delivery
- ④ Nano-robots for treatment of diseases

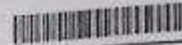
Use in various diseases

- ① Sickle cell anaemia
- ② Cancer
L It is used in

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
Please Cross (x) unused space

प्रश्नों के सामने
दिए गये बॉक्स
में Tick (✓) का
चिह्न लगायें।
Mark Tick (✓) in
the appropriate
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Question No.

56



इस स्थिति में
उम्मीदवार
गुप्त न होंगे।
Candidate
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write in this
margin

Chemotherapy

③ Covid diseases
in vaccine formulation

④ Common diseases like
Sneezing, cough
(nanomedicine can be
employed under it)

Term view of the long
term view of the Indian
government brought National
mission on Nano Science &
Tech in 2007-08 & is being
promoted actively

✓ 4 Q7e

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
Please Cross (x) unused space

प्रश्नों के सामने
दिए गये टिक (✓) का
चिह्न लगाएँ।
Mark Tick (✓) in
the appropriate
box in front of
Question No.

57



इस हार्डिको में
कुछ न लिखें
Candidates
should not
write in this
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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।

"Water water everywhere,
Nor a drop to drink"

This was the popular phrase/Idioms used in textbooks to denote the ~~importance~~ importance of water. Water forms the basis of

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
Please Cross (x) unused space

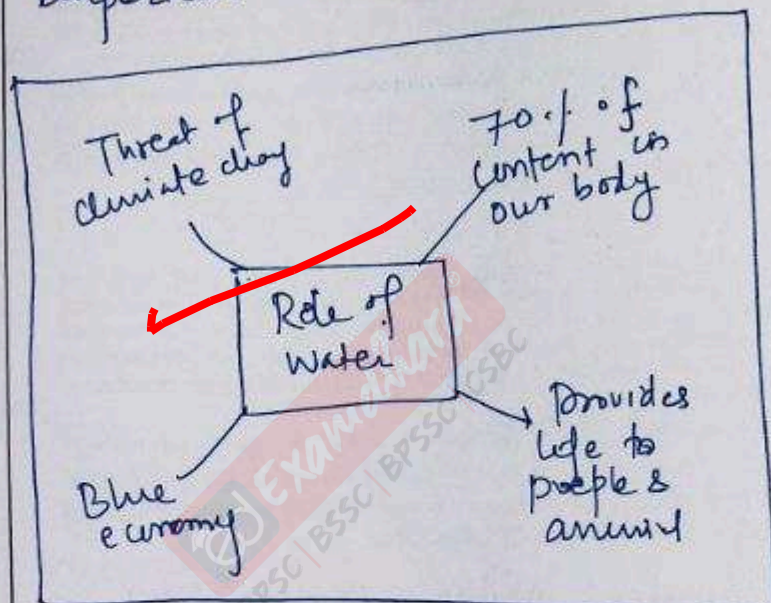
प्रश्नों के सामने
दिए गए सही बॉक्स
में Tick (✓) का
चिह्न लगाएँ।
Mark Tick (✓) in
the appropriate
box in front of
Question No.

58



इस हाथिने में
कम्प्यूटर
युक्त न लिखें
Candidate
should not
write in this
margin

Individuals & society. Its
important because —



Various Initiatives of central
government regarding water

① Jal Jeevan mission

- providing tap water connection to all by 2024
- Inspired by Bihar's Har
ghat Jal Jal Yojana.

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
Please Cross (x) unused space

प्रश्नों के सामने
दिए गए विकल्पों में से सही विकल्प
को टिक (Tick) करें।
Mark Tick (✓) in
the appropriate
box in front of
Question No.

59



इस स्थिति में
उम्मीदवार
कुछ न लिखें
Candidate
should not
write in this
margin

② Atal Bhujal Yojana

— India has highest amount of groundwater, which need to be preserved

③ Rainwater harvesting

— "Catch the rains" campaign by central government.

④ Formation of Jal Shakti Mantraya

↳ It would take care of water needs.

⑤ One water approach of UN

↳ India is collectively pushing for it.

↳ One water means water everywhere has same value.

⑥ Providing irrigation through solar energy

↳ PM-KUSUM

⑦ Interlinking of rivers

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
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प्रश्नों के सामने
दिए गये चिह्नों में
से Tick (✓) का
निशान लगायें।
Mark Tick (✓) in
the appropriate
box in front of
Question No.

60



इस हस्तिके से
उम्मीदवार
गुप्त न रहें।
Candidate
should not
write in this
margin

Challenges faced by the back-
drop of growing population

- ① Water - Shortage
- already being felt in many areas
- ② floods & droughts
- due to mismatch of monsoon
- ③ Water pollution
Unprotected discharge by industries
- ④ Lack of water availability to everyone
According to Asian Development Bank report only 20% water supply to Bihar with respect to national average.

Role of Bihar in tech-
Scientific manner for water
initiation

As 17.3% of Bihar's

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
Please Cross (x) unused space

प्रश्नों के सामने
दो लकीरें दी गई हैं।
वे Tick (✓) का
प्रयोग करें।
Mark Tick (✓) in
the appropriate
box in front of
Question No.

61



इस हार्डिक में
उम्मीदवार
दुख न लिखें
Candidate
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write in this
margin

Area is flooded and
also one-flood area faces
flood water - conservation very
paramount.

Various initiatives taken

- ① Har ghar nal ka Jal
- Sat Nischay - I
- ② Har Khet ko Sindhi ke
- Panu - Sat Nischay - II
- ③ Kohia Swachh Bharat mission
- Biha
- Compliment to Swachh
Bharat mission
- ④ Formation of Ahar-pynes.
- ⑤ Jal Jeevan Haridwar mission

Role of Science & Technology

- ① Biotechonology
- Bio remediation, develop
flood resistant & drought
resistant crop.

अप्रयुक्त स्थान को क्रॉस (X) कर दें।
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प्रश्नों के सामने
दिए गए बॉक्स
में Tick (✓) का
चिह्न लगाएँ।
Mark Tick (✓) in
the appropriate
box in front of
Question No.

62



इस इकाई में
उत्तर न लिखें
Candidate
should not
write in this
margin.

- ② Use of AI
↳ Smart domes, Kisan domes
etc. will deliver water
- ③ drip irrigation
↳ Reduce water wastage
- ④ Waste management technique
- ⑤ Use of Blockchain technology
↳ to maintain data of water
through transparency
- ⑥ Use of research etc. for
development of water
management tech.
Clean water and
Sanitation is one of the
SDGs, i.e., 6 of 2030 agenda
Hence active cooperation in
spirit of federalism & use
of technology is way forward
for it.

✓ 22 Q8 b

अप्रयुक्त स्थान को क्रॉस (x) कर दें।
Please Cross (x) unused space

63



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