



# VISION IAS

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## GENERAL STUDIES (TEST CODE : 874)

|                   |                               |                     |       |
|-------------------|-------------------------------|---------------------|-------|
| Name of Candidate | N. Mohd Ali Darsam Shah       |                     |       |
| Medium Eng./Hindi |                               | Registration Number | 97237 |
| Center            | Jamia millia <del>Islam</del> | Date                |       |

| INDEX TABLE           |               |                | INSTRUCTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------|---------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q. No.                | Maximum Marks | Marks Obtained | <ol style="list-style-type: none"> <li>Do furnish the appropriate details in the answer sheet (viz. Name, Registration Number and Test Code).<br/>उत्तर पुस्तिका में सूचनाएं भरना आवश्यक है (नाम, प्रश्न-पत्र कोड, विद्यार्थी क्रमांक आदि)।</li> <li>There are TWENTY questions printed in ENGLISH &amp; HINDI इसमें बीस प्रश्न हैं अंग्रेजी और हिन्दी में छपे हैं।</li> <li>All questions are compulsory.<br/>सभी प्रश्न अनिवार्य हैं।</li> <li>The number of marks carried by a question/part is indicated against it.<br/>प्रत्येक प्रश्न/भाग के अंक उसके सामने दिए गए हैं।</li> <li>Answers must be written in the medium authorized in the Admission Certificate, which must be stated clearly on the cover of this Question-Cum-Answer (QCA) Booklet in the space provided. No marks will be given for answers written in medium other than the authorized one.<br/>प्रश्नों के उत्तर उसी माध्यम में लिखे जाने चाहिए जिसका उल्लेख आपके प्रवेश पत्र में किया गया है और उस माध्यम का स्पष्ट उल्लेख प्रश्न-सह-उत्तर (क्यूसीए) पुस्तिका के मुख्य पृष्ठ पर अंकित निर्दिष्ट स्थान पर किया जाना चाहिए। उल्लिखित माध्यम के अतिरिक्त अन्य किसी माध्यम में लिए गए उत्तर पर कोई अंक नहीं मिलेंगे।</li> <li>Word limit in questions, if specified, should be adhered to.<br/>प्रश्नों में शब्द सीमा, जहाँ विनिर्दिष्ट है, का अनुसरण किया जाना चाहिए।</li> <li>Any page or portion of the page left blank in the Question-Cum-Answer Booklet must be clearly struck off.<br/>उत्तर पुस्तिका में खाली छोड़ा हुआ पृष्ठ या उसके अंश को स्पष्ट रूप से काट जाना चाहिए।</li> </ol> |
| 1                     | 12.5          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| 17                    | 12.5          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 18                    | 12.5          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 19                    | 12.5          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 20                    | 12.5          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Total Marks Obtained: |               |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Remarks:              |               |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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## EVALUATION INDICATORS

1. Alignment Competence
2. Context Competence
3. Content Competence
4. Language Competence
5. Introduction Competence
6. Structure - Presentation Competence
7. Conclusion Competence

Overall Macro Comments / feedback / suggestions on Answer Booklet:

1.

2.

3.

4.

5.

6.

**All the Best**

Answer the following questions in not more than 200 words each:

1. The greatness of the Mughal achievement in the political unification of India was matched by the splendour and beauty of the work of architects, poets, historians, painters and musicians who flourished in the period. Comment.

भारत के राजनीतिक एकीकरण में मुगलकालीन उपलब्धियों की महानता वस्तुतः वास्तुकारों, कवियों, इतिहासकारों, चित्रकारों एवं संगीतकारों के कार्यों की भव्यता एवं सुंदरता से अभिव्यक्त होती है, जो उस काल में फले-फूले। टिप्पणी कीजिए।

The mughal politically  
unite the country under  
a single rule providing  
political stability.

The grandeur of mughal era  
can be described by  
beauty of architects poet  
etc.

Architecture!

It was a blend of  
Hindu and islamic  
feature leading to  
synthesis of indo - islamic

architecture

- Akbar's Construction like Fateh Sikri, Humayun, tomb ~~signifies~~ panch mahal signifies the grandeur of mughal architecture
- Shah Jahan built Tajmahal, Red fort, Jama masjid etc.

### Painting

The mughal popularised miniature painting. The Focus of painting was mostly naturalistic, flower, Court scene etc.

- Painter like Abdu Samad, adorned the mughal court
- Jahangir himself was an accomplished painter
- + Aurangzeb being a puritanist

an court painter that  
give rise to regional  
School of painting

History:

→ Akbar Nama and

Ami - i Akbar written  
by Abul fazal chronicles  
the history of the time

→ Biography like Tuzuk - i -  
babari Jahangir - nama  
provides account of the  
socio - economic situation of  
the time

Music: Dawali, Ghazal etc,  
developed in the court

→ Tansen was one of  
the ~~Navrat~~ Navaratnas of  
Akbar Court.

Thus, the Mughal enriched  
the culture of India through  
arts, architecture, painting, music etc.

2. Traditionally, India had developed wide-ranging water harvesting techniques in keeping with the local ecological conditions and their water needs. Substantiate with examples.

पारंपरिक रूप से भारत ने स्थानीय पारिस्थितिक दशाओं एवं अपनी स्थानिक जल आवश्यकताओं के अनुसार विविध प्रकार की जल संचयन (वाटर हार्वेस्टिंग) तकनीकों का विकास किया था। उदाहरण सहित पुष्ट कीजिए।

→ Water harvesting means  
conserving water for  
domestic and human  
use.

India has had  
number of traditional  
harvesting techniques like:

(i) Bamboo channel in  
Meghalaya

(ii) Tank in the house  
in arid region like  
Rajasthan.

(iii) pond as a source  
of water harvesting  
is very popular

(iv) prad, rules etc in  
Himalayas

(v) Rain water harvesting  
technique in Tamil  
Nadu.

Most of rain technique  
are efficient way of  
harvesting water which  
can be use for  
Community uses.

The, places like meghalaya  
for example even though  
heavy rainfall occurs,  
due to poor rain water  
harvesting technique, they  
face acute water  
shortage for drinking  
purposes..

P.T.O.

Rain water harvesting,  
tank, wells etc are  
lifeline for many  
people in rural areas  
especially in arid and

semi arid area where  
rainfall is scanty and  
poor. ~~at~~

3. Imperial rivalries of 18th Century Europe were played out in India as well. Comment in the context of the Carnatic Wars.

18वीं सदी के यूरोप की साम्राज्यिक प्रतिद्वंद्विताएं भारत में भी देखी गईं। कर्नाटक युद्धों के संदर्भ में टिप्पणी कीजिए।

France and Britain were two of the major imperial power whose rivalries spread out to India as well.

Carnatic Wars were fought between France and Britain in South India.

First Carnatic War: This war was due to ~~the~~ Austrian Succession of throne in Europe. The rivalry spread to India. in 1747. The war ended indecisively and it ended with the treaty of Al u - Chapexre.

2nd Carnatic war: This war was due to Britain and France support for rivals in the Succession conflict in

Hyderabad and Carnatic.  
France were able to  
place Chanda Sahib on  
the Carnatic throne.

### Consequence Third Carnatic war

This war was due to  
the Seven year war in  
Europe (1756-63). It ended  
with the treaty of Paris.  
The French force were  
defeated at the battle  
of Wandiwash.

### Consequence of war:

→ The French force of 500  
strong were able to defeat  
Nawab 10,000 strong force.  
This exposed the fact that  
well trained, discipline  
and well better military weapon  
can easily defeat the strong  
undisciplined, untrained forces.

The war strengthened the  
holds of British east  
India Company in India.  
It led to the establishment  
of a strong british subject  
in India.

4. The Lucknow session of 1916 was a watershed event during the freedom struggle of India due to various reasons. Elucidate.

भारत के स्वतंत्रता संघर्ष के दौरान 1916 का लखनऊ सत्र विभिन्न कारणों से एक ऐतिहासिक घटना थी। स्पष्ट कीजिए।

Lucknow session of 1916 was a watershed event during the freedom movement that orient the future course and discourse of India.

The Lucknow Session was chaired by Gopal Krishna Gokhale, a moderate leader. Reunification of moderates & extremists.  
→ It led to readmission of the extremist to the Congress fold after 10 years of absence. It was mainly due to efforts of Gopal Krishna Gokhale, Bal Gangadhar Tilak, Annie Besant.

The session demands:

1. The session demands the increase participation of Indian in vicaroy executive

→ Council, expansion of legislative assembly and self government

→ It also demanded for the separation of legislature and executive

### Muslim League and Congress Lucknow pact:

Congress and Muslim League shed their differences and signed a pact whereby:

- (1) League would support Congress demand for self government and constitutional reforms
- (2) Congress accept the League demands for separate electoral.

### CONSEQUENCE OF LUCKNOW session

- 1) It rejuvenate and strengthened Hindu Muslim unity

↳ Acceptance of Seperate electoral gave legitimacy to future demand of two nation theory

↳ The british introduced reform in the form of Montague Chemsford Reform 1919.

Even though it couldn't Strengthen Hindu muslim for long but its effect can be seen from the fact Montague declaration of 1917 talks about Self government in future

5. Reforms initiated by the Justice Party became a model for social affirmative action in the country. Comment.

जस्टिस पार्टी द्वारा आरंभ किए गए सुधार देश में सकारात्मक सामाजिक कार्यवाही हेतु एक आदर्श बन गए थे। टिप्पणी कीजिए।

Justice Party was a political party that was founded in the erstwhile Madras Constituency.

The party was spearheaded by E.M. Periyar Naicker.

The party was a mobilisation of backward classes and caste against the Brahmanic domination in political, economic and religious affairs.

Reforms initiated by Justice Party:

- Introduced reservation for various communities
- Open the temple to dalit
- Promote inter caste marriage

P.T.O

- Gave voting right to women (
- Conducted marriages without the services of Brahmin & priest
- Stood for opening of roads, and other amenities to dalits.

In short, the justice party stood for <sup>social</sup> justice and equality. Many of the feature Constitutional provisions are reflected in the ideal of justice party.

Many of the initiative take up 'government like Abolition to dowry act, prevention of untouchability act, maternity benefit act, prevention of caste discrimination in Temple conduct etc are reflected in the ideals of

Justice party.

provision of reservation  
for SC/ST and OBC  
can also be said as  
a legacy of Justice party

The recently passed  
~~Right to disabilities act 2016~~  
can also

prevention of discrimination  
to disabilities act 2016  
can also be considered  
as a reflection of Justice  
party ideal

So, to these day the  
ideals of equality, non-discrimination,  
social justice of the Justice  
Party are alive in the  
government initiatives and  
politics

6. War in the Korean Peninsula proved to be disastrous for Korea, a missed opportunity for the United States and a defining moment for China. Examine.

कोरियाई प्रायद्वीप में हुआ युद्ध कोरिया के लिए विनाशकारी, संयुक्त राज्य अमेरिका के लिए एक खोया हुआ अवसर तथा चीन के लिए एक निर्णायक क्षण सिद्ध हुआ। परीक्षण कीजिए।

Korean peninsula was occupied by Japan from 1910 to 1945. After the defeat of Japan in world war II, it was divided into North Korea (Backed by Soviet union) and South Korea (backed by USA) along the 38th parallel.

The Korean war started when the North Korean troops attacked the South Korean and swept across the whole of it. The United Nations Security Council sent troops under pressure from USA to drive the North Korean out.

The war took a different turn when China entered the war in favour of North Korean support.

The war ended in 1953, when an armistice was signed that still divides the ~~North~~ Korean peninsula along the 38th line.

### Consequence of the war:

Korean: It led to massive loss of life (over two millions), Infrastructure and economic loss. Stagnate both North and South for decades. Both the countries even today are in a state of water crisis the border fortified and armed.

China: The war strengthened the might of Mao in the domestic sphere.

It ~~send~~ sent out a message  
that it stood up against  
the imperialist force of  
USA and drove them  
away.

USA! The war caught  
USA by surprise. It  
caused massive dignity,  
and embarrassment to the  
~~preparedness~~ of US force.  
The war made USA resolve  
stronger to prevent  
spread of communism.  
It also supported Chiang Kai  
Shek government of  
Taiwan.

7. The Munich Pact brought neither peace nor stability in relations between European countries, rather it turned out to be an act of appeasement that made war inevitable. Comment.

म्यूनिख समझौते ने यूरोपीय देशों के बीच संबंधों में न तो शांति उत्पन्न की और न ही स्थिरता, अपितु यह तुष्टीकरण की एक ऐसी कार्यवाही सिद्ध हुआ जिसने युद्ध को अपरिहार्य बना दिया। टिप्पणी कीजिए।

The Munich Pact was signed between ~~Hitler (Germany)~~ Germany [Hitler], Italy [Mussolini], ~~Or~~ England [Chamberlain] and France.

The Munich pact gave Germany the part of Czecho-slovakia ~~to~~ that are inhabited by German. It was an act of Appeasement with a hope by Britain and France that Germany conquest toward the east would checked Communism spread.

They belief that Germany  
and Hitler wouldn't attack  
the western Europe.

However, the pact  
emboldened Hitler. And  
in 1938 he occupied the  
whole of Czechoslovakia  
and it led to heavy  
militarisation of the  
Germany. Hitler believed  
that the opponent are  
weak and mediocre  
and he started conquering  
countries like Hungary.

In 1939, Hitler boldened  
by his success and  
passivity on the part of  
~~the~~ France and Britain  
conquered Poland. Poland

P.T.O

was a British ally.  
Britain declared war  
on Germany as a result.  
and it subsequently led  
to world war II.

Thus, Munich Pact is  
a blot in the history,  
and classic example of  
failed appeasement with  
a consequences that led  
to death of millions of  
people.

8. Explain how Gandhi's non-violent philosophy influenced Martin Luther King Jr.'s methods. Also discuss the contributions and accomplishments of King to ensure civil rights for all people regardless of race in America.

ब्याख्या कीजिए कि किस प्रकार से गांधीजी के अहिंसावादी दर्शन ने मार्टिन लूथर किंग जूनियर के तरीकों को प्रभावित किया। साथ ही अमेरिका में नस्लीय भेदभाव के बिना सभी लोगों के लिए नागरिक अधिकार सुनिश्चित करने में मार्टिन लूथर किंग के योगदानों एवं उपलब्धियों की भी चर्चा कीजिए।

→ Martin Luther King  
was a African American  
Civil right leader

Trained as a pastor,  
Martin Luther King  
was deeply influenced  
by Gandhi's philosophy of  
non-violence.

According to him, the  
right of the African American  
can be ensured only  
through the method of  
Non-violence. He led  
the Non-violence movement

against the racist Southern States that denied the African American basic Civil right and practice Segregation.

He even visited India in 1959 and gave an interview in the All India radio about the influence of Gandhiji.

### Contribution and Accomplishment of Martin Luther King:

- (i) He led the civil right protest against the white Supremacist and racist Southern State.
- (ii) He provided the leadership to the subjugated black American.
- (iii) He led the anti Segregation movement.

(iii) He supported Rosa park  
in the Montgomery  
Bus incident

(iv) Conducted protest, meeting,  
propaganda ag. for the  
right-

~~also~~ Accomplishment:

→ (i) The govt of USA passed  
the Civil right Act 1964  
that guarantees that there  
cannot be any discrimination  
on the basis of colour, race,  
religion etc.

(ii) Right to vote was granted

The legacy of Martin-Luther  
King is felt still today.  
As Barack Obama said that  
he wouldn't have become  
the first black president  
if not for Martin-Luther  
King and Gandhi. He is  
living testimony of principle of Gandhi  
and Martin Luther King

9. Apart from the linguistic reorganisation of states, the three language formula was an important part of government policy to address the language question in India. Discuss.

राज्यों के भाषाई पुनर्गठन के अतिरिक्त, त्रि-भाषा सूत्र भारत में भाषा की समस्या का समाधान करने की सरकार की नीति का एक महत्वपूर्ण भाग था। चर्चा कीजिए।

The India is a diverse country with numerous ~~numerous~~ number of language. The demand for reorganisation of states soon started after independence.

Dhar Committee and Jop Committee talks about only administrative reorganisation of state. But due to pressure, the ALI Fazal Committee provided for linguistic reorganisation of state on ~~language~~ linguistic line. It led to State Reorganisation Act 1956. 14 states were formed.

~~Punjab~~ and Bombay provinces got divided into Gujarat and Maharashtra.

on the bases of Language,  
~~the government of India~~  
Constitution of India provides  
~~that~~ Hindi and English  
would be two official  
 language for 15 years and  
 then Hindi was supposed  
 to be made the only  
 official language. But in  
 1967, the government  
 continued with Hindi  
 and English as the two  
 official language.

The three language  
formula: The instruction  
 are provided in mother  
 tongue to primary students  
 and English and another  
 two indian language in  
upper classes

The fact of the matter is the language is a very sensitive issue. Any imposition of Hindi in Southern and Northeastern state is objected vehemently by the local people even though Constitution provides for the promotion of Hindi as per article 343 and 351.

And the reality is that English is mainly use as medium especially in higher & education system and Corporate sector.

10. Enumerate the measures for the welfare of Unorganised Workers in India. In the context of problems being faced by 'domestic helps', discuss the need for additional measures to safeguard their interests.

भारत में असंगठित कामगारों के कल्याण हेतु किए गए उपायों को सूचीबद्ध कीजिए। 'घरेलू सहायकों' द्वारा सामना की जा रही समस्याओं के संदर्भ में, उनके हितों की रक्षा करने हेतु अतिरिक्त उपायों की आवश्यकता की चर्चा कीजिए।

→ unorganised workers  
or sector constitute over  
90% of the work force.

Major characteristic of unorganised workers:

- (i) they are unskilled and semi skilled  
(ii) Are lowly paid, ~~are~~  
(iii) have a weak bargaining power.  
(iv) Insurance coverage, Healthcare etc are poor.

Measures for welfare of unorganised workers in India:

- (i) Equal remuneration act  
(ii) Maternity benefit act

provides benefits for the  
unskilled and ~~unorganised~~ unorganised  
pregnant worker.

(3) prevention to ~~sexual~~ Sexual  
Harassment in workplace Act.

(4) Atal Pension Yojana

(5) Pradhan Mantri Suraksha  
Bima Yojana.

Domestic helps are kind  
of unorganised worker that  
performs domestic work  
like cleaning, cooking,  
baby sitting, etc.

problem face by domestic  
workers are:

(i) They are unskilled and  
lack ability to look for  
alternative jobs

(ii) Most of the jobs domestic work belong to poor marginalised section and it is dominated by women and are vulnerable to sexual harassment.

(iii) There is hardly any registration and jobs are lowly paid

(iv) They are made to work long hours

 There is no law that regulated and look after the welfare of the domestic worker. The worker tends to be from marginalised section with low bargaining power. As a result a strict legal framework is required which ensure proper pay, work time and grievance redressal mechanism.

11. The manner in which the mentally ill have been treated in India suggests that policy measures alone may not be sufficient to address the challenges faced by them. Discuss.

भारत में मानसिक रूप से रोग ग्रस्त व्यक्तियों के साथ जिस प्रकार का व्यवहार किया जाता रहा है उससे यह सिद्ध होता है कि मात्र नीतिगत उपाय ही उनके द्वारा सामना की जाने वाली चुनौतियों का समाधान करने के लिए पर्याप्त नहीं हैं। चर्चा कीजिए।

As per the Mentally ill Act 2017, Mental illness is defined as :-

The condition that distorts feeling, thinking, orientation which impairs judgement, behaviour and character of an individual. More than 15% of the population has had experience one form or another.

The policy measure taken up by government:

→ 1) Mentally ill Act 2017  
decriminalise suicide

→ 2) Disabilities Act 2016,  
includes mental illness as  
a disabilities.

n) Prevention of

→ "1" Mental illness Act provides for good mental healthcare and treatment in government public health service

(iv) → Article 14 of the Constitution provides for right to equality.

But policies are not sufficient

→ poor fund allocation, only 0.06% of health budget is spend on mental healthcare

priority, low priority of mental healthcare as it is not considered as a serious enough diseases

Infrastructure: lack of mental healthcare facilities especially in rural area.

And the psychiatrist coverage is abysmally low.

Social stigmatization and Social taboo: The Indian traditional culture label ~~not~~ mental illness as madness that discourages people to come forward.

### WAY FORWARD

Mental illness is a disease that can be treated ~~as~~ with medication. The role of Spouse, siblings, parents and friends are crucial as any sign of depression, etc need to deal with care compassion and love.

12. Highlight the characteristics of Particularly Vulnerable Tribal Groups (PVTGs) and discuss the challenges faced by them. Also enumerate the measures taken by the government to address these challenges.

विशिष्ट रूप से सुभेद्य जनजातीय समूहों (Particularly Vulnerable Tribal Groups: PVTGs) की विशेषताओं पर प्रकाश डालिए एवं उनके द्वारा सामना की जाने वाली चुनौतियों की चर्चा कीजिए। साथ ही सरकार द्वारा इन चुनौतियों का समाधान करने हेतु किए गए उपायों को सूचीबद्ध कीजिए।

Particularly vulnerable Tribal Group as the name suggest are tribes that are vulnerable".

Characteristics of PVTG

- Subsistence livelihood like Hunting gathering
- primitive tools and technology
- Geographical isolation and minimal contact with mainstream
- decreasing population

Challenge face by PVTG:

→ Health: The health indicator is very poor with High MMR, IMR etc.  
 @ They are prone infections and communicable diseases

Literacy: The literacy coverage is ~~ex~~ very low.

Development intrusion:  
 loss of Habitat and livelihood due to mining, Forest Conservation policy etc

Stigmatisation: People usually look down upon them as "inferior", ~~Falso~~ "uncultural" and "uncivilised".

→ Exploitation in the form of exhibition (Example: Tourist youth taking photos and harassing Sentinels and other Adaman tribes).

Steps taken up the Government:

- The Government started national tribal policy 1952
- The government adopted targetted policies (different policies for each tribes).
- The Community led development effort was adopt as an approach.
- ~~providing~~ providing Citizenship to PVTG like Sentinels, Nicobaries etc

13. While suburbanisation is a common phenomenon in most urbanising countries, it is occurring at a relatively early stage of India's urban development. Enumerating the reasons behind this development, highlight the challenges it is creating for Indian cities.

यद्यपि उपशहरीकरण अधिकांश शहरीकृत हो रहे देशों में एक सामान्य परिघटना है, किन्तु भारत के शहरी विकास के संदर्भ में यह अपेक्षाकृत प्रारंभिक चरण पर में हो रही है। इस विकास के अंतर्निहित कारणों को सूचीबद्ध करते हुए भारतीय शहरों के लिए इसके द्वारा उत्पन्न की जा रही चुनौतियों पर प्रकाश डालिए।

→ Suburbanisation is a modern phenomenon whereby population from central urban location shifts to peripheral suburb, etc.

Reason behind this development

- High rental and land cost in the main urban areas
- Improving transport system make it easier to travel to and fro
- Away from Congestion, Chaos and disturbances to peace, and tranquility

- provision of cook from home
- provision of benefits in the periphery like cheap house etc.

Challenges that of Suburbanisation creates:

- Environment
  - ↳ pollution due to increasing ~~pollu~~ Population, vehicular emission
- unplanned and underdeveloped urbanisation creating pressure on land causing land pollution

Health: Most of these suburb lack proper health facilities sanitation and other basic amenities.

→ Increasing slum dwelling

Example of Suburbanisation  
can be given that of  
NCR (like Noida, Gurgaon,  
Faridabad etc).

14. Various geographical and anthropogenic factors have rendered Brahmaputra Valley susceptible to recurrent floods. Discuss the causes and suggest suitable measures of mitigation.

विविध भौगोलिक एवं मानव जनित कारकों ने ब्रह्मपुत्र घाटी को वारम्बार बाढ़ों हेतु अति संवेदनशील बना दिया है। इसके कारणों की चर्चा कीजिए तथा शमन के उचित उपाय सुझाइए।

Brahmaputra valley spread across Assam and part of Arunachal Pradesh in the north eastern states.

The region is at mercy of flood regularly.

### Geographical Causes:

- The Course of River starts from a high gradient and steep slope.
- Narrow valley with hills on other sides
- Huge amount of river waters
- Right bank rivers (tributaries) are fast flowing

→ Huge alluvials it carries along its course.

### Anthropogenic factors

- ↳ Land pressure in the form of settlement in the flood plain and other vulnerable region / areas
- ↳ unplanned construction in the vicinity
- ↳ Lack of use of technology like early warning system
- ↳ Administrative and governmental failure to devise proper flood management plans
- ↳ Deforestation and other environmental degradation

## Suitable mitigation measures

↳ evacuation of people  
from flood plain and  
rehabilitation and relocation  
in safer areas

↳ Improving the river  
bank strength through  
concrete structure.

↳ proper dissemination of  
early warning system.

↳ use space technology  
like weather forecasting  
etc.

↳ Afforestation.

Flood mitigation is key  
to future development  
North east in general and  
Assam in particular

15. Give a brief account of Earth's heat budget. Also discuss how increasing concentration of carbon dioxide in Earth's atmosphere effects it.

पृथ्वी के ऊष्मा बजट का एक संक्षिप्त विवरण दीजिए। साथ ही चर्चा कीजिए कि पृथ्वी के वायुमंडल में कार्बन डाइऑक्साइड की निरंतर बढ़ रही सांद्रता इसे किस प्रकार प्रभावित करती है।

Heat budget is defined as the phenomenon whereby the earth receives the Sun rays in the form of long waves and reflected as short wave back to the earth surface atmosphere.

that is the total incoming radiation is equal to the total outgoing radiation.

It balanced the heat of the earth as earth is neither hot or cold due to

Heat budget

The <sup>excess</sup> heat receive at the equator is transferred to poles through ocean current and could thereby maintaining a balance. Earth is a

perfect black body. It ~~absorb~~ <sup>does not</sup> absorb any heat but reflect back all the heat from sun.

→ The short waves radiation reflected back from earth are trapped by the greenhouse gases in the atmosphere. Increases  $\text{CO}_2$  would lead to increasing warming of the earth atmosphere as the ~~heat solar~~ waves are trapped and reflected back to the earth.

This warming leads to  
the phenomenon of  
global warming.

16. Give an outline of the major geological events that have shaped the present drainage system of Peninsular India. Also, explain why peninsular rivers are unsuitable for navigation but facilitate hydroelectric power generation.

प्रायद्वीपीय भारत के वर्तमान अपवाह तंत्र को आकार प्रदान करने वाली प्रमुख भू-गर्भीय घटनाओं की एक रूपरेखा प्रस्तुत कीजिये। साथ ही स्पष्ट कीजिए कि ऐसा क्यों है कि प्रायद्वीपीय नदियां नौबहन के लिए अनुपयुक्त हैं लेकिन जलविद्युत उत्पादन को सुविधाजनक बनाती हैं।

The Indian drainage system is divided into two major system viz: Himalayan and peninsular system.

The drainage system are result of the geological events that take millions of years ago. The subsidence of the western flank of Peninsular Block ~~leads to~~ occurs that shaped the present drainage system.

The Himalayan emergence led to faulting along

~~western~~ Peninsular block  
which is filled by  
river Tapi and Narmada

Further, The Peninsular  
region is tilted toward  
the Bay of Bengal  
which explain why  
major rivers flows toward  
Bay of Bengal.

unsuitable for navigation ; due

- (i) Most of rivers are  
shallow and short duration
- (ii) river originating from Western  
Ghat flows along rocky  
mountain system.
- (iii) Rock type found in  
Peninsular India are igneous  
and metamorphic.

(4) most of the river are seasonal.

Sustainability for Hydro electric project;

(1) → Some of the west flowing are fast flowing from Western Ghats.

(4) Western Ghats receive huge rainfall.



17. Elaborate with examples as to how government policies influence the location of industries. Also, mention the steps taken by the Government of India to stimulate industrial activity in backward regions.

उदाहरण सहित व्याख्या कीजिए कि किस प्रकार से सरकारी नीतियां औद्योगिक अवस्थिति को प्रभावित करती हैं। साथ ही, भारत सरकार द्वारा पिछड़े क्षेत्रों में औद्योगिक गतिविधियों को बढ़ावा देने हेतु उठाए गए कदमों का भी उल्लेख कीजिए।

Governmental policies are one of the major indicator and influencer of location of industries

Government policies influences by:

(i) Tax cuts like excise, income etc for opening industries along certain areas.

(ii) Facilities like SEZ that attract investment

(iii) Government policies that give benefits for opening industries in backward region like

North east

(ND) ~~New~~ UDAAN Scheme  
for air connectivity  
of underserved areas.

Steps taken!

- Govt provides support  
System like dedicated  
freight corridor
- provides logistic  
support
- welfare of the  
industrialist and investor  
in disturbed area etc.



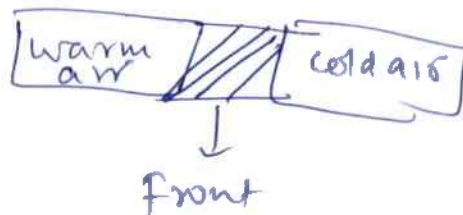
18. Explain, in brief, the process of cloud formation. Also, elucidate how clouds can help in weather forecasting.

संक्षेप में बादल बनने की प्रक्रिया की व्याख्या कीजिए। साथ ही स्पष्ट कीजिए कि मौसम के पूर्वानुमान में बादल किस प्रकार सहायता कर सकते हैं।

Cloud are forms when a parcel of air is raised from surface through adiabatic <sup>expansion</sup> ~~compression~~ and subsequent cooling down with height.

It can be formed through three ways:

(1) front formation



→ When a mass of hot air meet cold air, then a front is formed.

It leads to upliftment of warm air and lead to

to adiabatic ~~compres~~  
expansion and it  
reaches a saturation point  
after it cools down

### Through Convection:

Due to high heating  
especially on hot day  
water vapour rises

→ Through orographic,  
when a mass of air  
encounter a mountain.



'orographic' cloud  
formation.

Cloud can help in  
weather forecasting by  
looking at the type of  
the cloud formation.

It is  
Cirrus cloud (high cloud)  
then it means clear  
sky and fine weather

Nimbus cloud: it is fluffy  
cotton like cloud formation

↳ It may it lead

Stratus clouds: It may  
lead to some drizzle

Cumulonimbus cloud:  
→ It is huge dark cloud  
form due to convection.  
It announces heavy rainfall  
storm etc.

Thus, cloud can be  
an effective way of  
weather forecasting

19. The socio-economic and ecological consequences of soil degradation are far-reaching. Discuss. Suggest measures that can be taken to restore soil fertility and arrest soil degradation.

मृदा निम्नीकरण के सामाजिक-आर्थिक एवं पारिस्थितिक परिणाम दूरगामी प्रभाव डालते वाले होते हैं। चर्चा कीजिए। मृदा उर्वरता को पुनर्स्थापित करने एवं मृदा निम्नीकरण को रोकने हेतु किए जा सकने वाले उपाय सुझाइए।

~~Socio - econ~~

Soil degradation is an all encompassing concept that includes loss of fertility, salinisation, alkalisation, soil erosion etc. that leads to poor soil quality.

Socio - economic Consequences

- It leads to loss of unproductivity
- Increase the pressure of Population on land
- Increase the input costs as more Chemical and Fertiliser are needed
- Leads to decreasing

→ profitability of agriculture  
Contributing to rural dist  
agricultural distress

→ increasing inequalities,  
and other problems :

As can be seen from the  
Green Revolution area, the  
indiscriminate use of  
pesticide fertiliser, ~~the~~ chemical  
leads to loss of fertility  
leading to loss of production  
threatening food security.

### Ecological Consequences

- Environmental degradation  
due to land pollution
- Salinisation decreasing  
percolation of water
- Soil erosion leading  
to loss of top soil

→ desertification due to decrease plant growth

### Mitigation measures :

- use of Micro Irrigation to decrease Salinisation
- Migrating to organic farming.
- Zero tillage, Contour terrace etc.
- Banning of Tractor Cultivation
- discouraging Chemical Fertiliser
- Subsidise electricity to reduce flood irrigation

All the ~~life~~ life lives on land. Therefore its maintenance and arresting soil degradation is crucial for future

20. Development of island territories requires a careful balancing of environmental and tribal concerns with exploitation of economic potential. Elaborating on the threats faced by island territories of India, comment on the recent measures proposed by the government regarding their development.

द्वीपीय क्षेत्रों के विकास हेतु संभावित आर्थिक क्षमताओं के दोहन के साथ ही पर्यावरणीय एवं जनजातीय चिंताओं के मध्य विवेकपूर्ण संतुलन की आवश्यकता है। भारत के द्वीपीय क्षेत्रों द्वारा सामना किए जाने वाले खतरों को विस्तार से बताते हुए, उनके विकास के संबंध में सरकार द्वारा हाल ही में प्रस्तावित उपायों पर टिप्पणी कीजिए।

- India has two set of Island in the Andaman sea (Andaman island) and Arabian Sea (Lakshwadeep)
- Threat faced by island
- Increasing piracy along the Indian ocean
- Terror threat from non-State actor and Foreign terror export
- Increasing Global focus in the neighbouring Indian Ocean Region

Strategic importance of  
the island make it  
vital for India to  
secure it

### Recent initiative

- Sagarmala
- port led development
- Construction of  
infrastructure facilities  
like port, roads,  
etc
- Establishment of  
Joint Security Command  
in Andaman Island.
- Special schemes and  
developmental programme  
for the tribes of  
Andaman and Nicobar  
Island.

→ Focusing on basic amenities like healthcare, education etc for all round development.

Island territories are important for India. Security, Strategic, economics and political stability. As a result the policy should involve local people and communities.