ALL ODISHA OPSC OAS MAINS TEST SERIES 2023 TEST-25

OPSC TEST ID - 25

Total Marks: 250 Time: 3 Hours

Candidates should attempt all questions of Group A with word limit of 300 words and any 10 questions of Group B with word limit of 250 words.

Question 1 to Question 5 20 marks each (answer in 300 words)

Question 6 to Question 18 15 marks each (answer in 250 words)

GROUP A

- Q.1 Facilitating a conducive ecosystem for private investment is essential to driving a sustainable cycle of economic growth. In this context, discuss the key challenges that hinder India's goal of achieving a \$5 trillion economy. ଆର୍ଥିକ ଅଭିବୃଦ୍ଧିର ଏକ ହାୟୀ ଚକ୍ର ଚଳାଇବା ପାଇଁ ଘରୋଇ ନିବେଶ ପାଇଁ ଏକ ଅନୁକୂଳ ଇକୋସିଷ୍ଟମକୁ ସୁଗମ କରିବା ଅତ୍ୟନ୍ତ ଜରୁରୀ। ଏହି ପରିପ୍ରେକ୍ଷୀରେ, ଭାରତର \$5 ଟ୍ରିଲିୟନ ଅର୍ଥନୀତି ହାସଲ ଲକ୍ଷ୍ୟକୁ ବାଧା ଦେଉଥିବା ପ୍ରମୁଖ ଚ୍ୟାଲେଞ୍ଜଗୁଡ଼ିକ ଉପରେ ଆଲୋଚନା କରନ୍ତୁ।
- Q.2 What is meant by 'active inclusion' in the context of sustainable economic growth? Discuss the measures implemented by the government to promote active inclusion. ଛାୟୀ ଆର୍ଥିକ ଅଭିବୃଦ୍ଧି ପରିପ୍ରେକ୍ଷୀରେ 'ସକ୍ରିୟ ଅନ୍ତର୍ଭୁକ୍ତି' କ'ଶ ବୁଝାଏ? ସକ୍ରିୟ ଅନ୍ତର୍ଭୁକ୍ତିକୁ ପ୍ରୋହାହିତ କରିବା ପାଇଁ ସରକାର କାର୍ଯ୍ୟକାରୀ କରିଥିବା ପଦକ୍ଷେପଗୁଡ଼ିକ ଉପରେ ଆଲୋଚନା କରନ୍ତୁ।
- Q.3 To address the growing threat of drug-resistant bacteria, researchers are investigating how a particular superbug evolves to resist an antibiotic considered the last line of defense. In this context, explain the concept of antimicrobial resistance and discuss the key factors contributing to antibiotic resistance in India. ଔଷଧ-ପ୍ରତିରୋଧୀ ଜୀବାଣୁର ବର୍ଦ୍ଧିତ ବିପଦକୁ ସମାଧାନ କରିବା ପାଇଁ, ଗବେଷକମାନେ ଅନୁସନ୍ଧାନ କରୁଛନ୍ତି ଯେ କିପରି ଏକ ନିର୍ଦ୍ଦିଷ୍ଟ ସୁପରବଗ୍ ଶେଷ ପ୍ରତିରକ୍ଷା ଭୋବରେ ବିକଶିତ ହୋଇ ଏକ ଆଣ୍ଟିବାୟୋଟିକ୍ ପ୍ରତିରୋଧ ପାଇଁ ବିକଶିତ ହୁଏ। ଏହି ପରିପ୍ରେକ୍ଷୀରେ, ଆଣ୍ଟିମାଇକ୍ରୋବାୟଲ୍ ପ୍ରତିରୋଧର ଧାରଣା ବ୍ୟାଖ୍ୟା କରନ୍ତୁ ଏବଂ ଭାରତରେ ଆଣ୍ଟିବାୟୋଟିକ୍ ପ୍ରତିରୋଧରେ ଅବଦାନ ରଖୁଥିବା ପ୍ରମୁଖ କାରଣଗୁଡ଼ିକ ଉପରେ ଆଲୋଚନା କରନ୍ତୁ।
- Q.4 Analyze the key highlights of the Odisha Budget 2025-26, focusing on its fiscal indicators, major policy initiatives, and sectoral growth trends. Discuss its implications for economic development in the state. ଓଡ଼ିଶା ବଳେଟ୍ 2025-26 ର ମୁଖ୍ୟ ସୂଚନାଗୁଡ଼ିକୁ ବିଶ୍ଲେଷଣ କରନ୍ତୁ, ଏହାର ଆର୍ଥିକ ସୂଚକ, ପ୍ରମୁଖ ନୀତି ପଦକ୍ଷେପ ଏବଂ କ୍ଷେତ୍ରୀୟ ଅଭିବୃଦ୍ଧି ଧାରା ଉପରେ ଧ୍ୟାନ ଦିଅନ୍ତ। ରାଜ୍ୟରେ ଆର୍ଥିକ ବିକାଶ ପାଇଁ ଏହାର ପ୍ରଭାବ ଆଲୋଚନା କରନ୍ତୁ।
- Q.5 Discuss Odisha's transformation in disaster management over the past two decades. What key lessons can other states and countries learn from its approach? ଗତ ଦୁଇ ଦଶନ୍ଧି ମଧ୍ୟରେ ବିପର୍ଯ୍ୟୟ ପରିଚାଳନାରେ ଓଡ଼ିଶାର ପରିବର୍ତ୍ତନ ବିଷୟରେ ଆଲୋଚନା କରନ୍ତୁ। ଏହାର ଆଭିମୁଖ୍ୟରୁ ଅନ୍ୟ ରାଜ୍ୟ ଏବଂ ଦେଶମାନେ କ'ଣ ପ୍ରମୁଖ ଶିକ୍ଷା ପାଇପାରିବେ?



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GROUP B

- Q.6 Can PM-KISAN be the game-changer in transforming India's agricultural support system and addressing rural distress? କ'ଶ ପ୍ରଧାନମନ୍ତ୍ରୀ-କିଷାନ ଭାରତର କୃଷି ସହାୟତା ବ୍ୟବସ୍ଥାକୁ ପରିବର୍ତ୍ତନ କରିବା ଏବଂ ଗ୍ରାମୀଣ ଦୁର୍ଦ୍ଦଶାର ସମାଧାନ କରିବାରେ ଖେଳ ପରିବର୍ତ୍ତକ ହୋଇପାରେ?
- Q.7 Recent studies on global rainforest deforestation reveal a critical situation. How can efforts be intensified to safeguard tropical forests and enhance their role in regulating Earth's climate? ବିଶ୍ୱ ବର୍ଷାଚ୍ଚଳ କ୍ଷୟ ଉପରେ ସାମ୍ପ୍ରତିକ ଅଧ୍ୟୟନ ଏକ ଜଟିଳ ପରିସ୍ଥିତି ପ୍ରକାଶ କରେ। ଉଷକଟିବନ୍ଧୀୟ ଜଙ୍ଗଲକୁ ସୁରକ୍ଷା ଦେବ। ଏବଂ ପୃଥିବୀର ଜଳବାୟୁ ନିୟନ୍ତଶରେ ସେମାନଙ୍କର ଭୂମିକାକୁ ବୃଦ୍ଧି କରିବା ପାଇଁ ପ୍ରୟାସକୁ କିପରି ତୀବ୍ର କରାଯାଇପାରିବ?
- Q.8 Technology serves as both an enabler and a challenge to national security. In light of this, discuss how law enforcement agencies can leverage social media to enhance national security. ପ୍ରଯୁକ୍ତିବିଦ୍ୟା ଜାତୀୟ ସୁରକ୍ଷା ପାଇଁ ଏକ ସମର୍ଥକ ଏବଂ ଏକ ଚ୍ୟାଲେଞ୍ଜ ଭାବରେ କାର୍ଯ୍ୟ କରେ। ଏହାକୁ ଦୃଷ୍ଟିରେ ରଖି, ଆଇନ ପ୍ରବର୍ତ୍ତନ ଏଜେହ୍ନିଗ୍ରଡ଼ିକ ଜାତୀୟ ସୁରକ୍ଷାକ୍ ବୃଦ୍ଧି କରିବା ପାଇଁ ସାମାଜିକ ଗଣମାଧ୍ୟମକୁ କିପରି ବ୍ୟବହାର କରିପାରିବେ ଡାହା ଆଲୋଚନା କରନ୍ତୁ।
- Q.9 Discuss the economic significance of Odisha's ecosystem services and land commons, highlighting the challenges they face and the need for sustainable management policies. ଓଡ଼ିଶାର ଇକୋସିଷ୍ଟମ ସେବା ଏବଂ ଭୂମି ସାଧାରଣ କ୍ଷେତ୍ରର ଆର୍ଥିକ ଗୁରୁତ୍ତ ବିଷୟରେ ଆଲୋଚନା କରନ୍ତୁ, ସେମାନେ ସମ୍ମୁଖୀନ ହେଉଥିବା ତ୍ୟାଲେଞ୍ଜ ଏବଂ ୟାୟୀ ପରିଚାଳନା ନୀତିର ଆବଶ୍ୟକତା ଉପରେ ଆଲୋକପାତ କରନ୍ତ ।
- Q.10 Agricultural growth and transformation are impossible without an active private sector that supports and drives farming, agribusiness, and agri-food value chains. Discuss. କୃଷି, କୃଷି ବ୍ୟବସାୟ ଏବଂ କୃଷି-ଖାଦ୍ୟ ମୂଲ୍ୟ ଶୃଙ୍ଖଳକୁ ସମର୍ଥନ ଏବଂ ଚାଳିତ କରୁଥିବା ଏକ ସକ୍ରିୟ ଘରୋଇ କ୍ଷେତ୍ର ବିନା କୃଷି ଅଭିବୃଦ୍ଧି ଏବଂ ପରିବର୍ତ୍ତନ ଅସୟବ। ଆଲୋଚନା କରନ୍ତ୍ର।
- Q.11 "Intelligence reform in India can only be effective if it is integrated with police modernization, ensuring the enhancement of both technological and human capabilities of State police personnel." Discuss the challenges associated with India's intelligence framework in this context. "ଭାରତରେ ଗୁପ୍ତଚର ସଂଷ୍କାର କେବଳ ସେତେବେଳେ ପ୍ରଭାବଶାଳୀ ହୋଇପାରିବ ଯଦି ଏହା ପୋଲିସ ଆଧୁନିକୀକରଣ ସହିତ ସମନ୍ୱିତ ହୁଏ, ରାଜ୍ୟ ପୋଲିସ କର୍ମଚାରୀଙ୍କ ପ୍ରଯୁକ୍ତିବିଦ୍ୟା ଏବଂ ମାନବ କ୍ଷମତା ଉଭୟର ବୃଦ୍ଧିକୁ ସୁନିଷ୍ଟିତ କରେ।" ଏହି ପରିପ୍ରେକ୍ଷୀରେ ଭାରତର ଗୁପ୍ତଚର ଢାଞ୍ଚା ସହିତ ଜଡିତ ଚ୍ୟାଲେଞ୍ଜଗୁଡ଼ିକ ବିଷୟରେ ଆଲୋଚନା କରନ୍ତ।
- Q.12 India is among the first countries to develop a comprehensive 'Cooling Action Plan' in line with the Montreal Protocol to combat ozone layer depletion. Discuss the extent to which this plan can aid in reducing both direct and indirect emissions while meeting the cooling demands across various economic sectors.
 ଓଳୋନ ଷର ହ୍ରାସକୁ ମୁକାବିଲା କରିବା ପାଇଁ ମଣ୍ଟ୍ରିଆଲ ପ୍ରୋଟୋକଲ ସହିତ ଏକ ବ୍ୟାପକ 'କୁଲିଂ ଆକ୍ସନ ପ୍ଲାନ୍' ବିକଶିତ କରିବାରେ ଭାରତ ପ୍ରଥମ ଦେଶମାନଙ୍କ ମଧ୍ୟରେ ଅନ୍ୟତମ। ବିଭିନ୍ନ ଆର୍ଥିକ କ୍ଷେତ୍ରରେ ଶୀତଳତା ଚାହିଦା ପୂରଣ କରିବା ସହିତ ଏହି ଯୋଜନା ପ୍ରତ୍ୟକ୍ଷ ଏବଂ ପରୋକ୍ଷ ନିର୍ଗମନକୁ ହ୍ରାସ କରିବାରେ କେତେ ସାହାଯ୍ୟ କରିପାରିବ ତାହା ଆଲୋଚନା କରନ୍ତୁ।
- Q.13 "A disaster-resilient world requires robust and resilient infrastructure." In this context, examine how the Coalition for Disaster Resilient Infrastructure (CDRI) can support India's commitment to the Sendai Framework for Disaster Risk Reduction in mitigating disaster risks.
 "ଏକ ବିପର୍ଯ୍ୟୟ-ପ୍ରତିରୋଧୀ ବିଶ୍ୱ ପାଇଁ ଦୃଢ଼ ଏବଂ ଛିର ଭିତ୍ତିଭୂମି ଆବଶ୍ୟକ।" ଏହି ପରିପ୍ରେକ୍ଷୀରେ, ବିପର୍ଯ୍ୟୟ ପ୍ରତିରୋଧୀ ଭିତ୍ତିଭୂମି ପାଇଁ ମେଣ୍ଟ (CDRI) ବିପର୍ଯ୍ୟୟ ବିପଦ ହ୍ରାସ କରିବାରେ ସେଣାଇ ଫ୍ରେମୱାର୍କ ପ୍ରତି ଭାରତର ପ୍ରତିବଦ୍ଧତାକୁ କିପରି ସମର୍ଥନ କରିପାରିବ ତାହା ଯାଞ୍ଚ କରନ୍ତୁ।



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- Discuss how the key features of the Paris Call contribute to strengthening cybersecurity. Q.14 Additionally, outline the measures taken by the Government of India to address cybersecurity challenges.
 - ପ୍ୟାରିସ୍ ଆହ୍ୱାନର ପ୍ରମୁଖ ବୈଶିଷ୍ୟଗୃଡ଼ିକ ସାଇବର ସ୍ରକ୍ଷାକ୍ ସ୍ଡୁଡ଼ କରିବାରେ କିପରି ଅବଦାନ ରଖେ ତାହା ଆଲୋଚନା କରନ୍ତୁ। ଏହା ସହିତ, ସାଇବର ସ୍ତରକ୍ଷା ଚ୍ୟାଲେଞ୍ଜର ମୁକାବିଲା ପାଇଁ ଭାରତ ସରକାରଙ୍କ ହାରା ନିଆଯାଇଥିବା ପଦକ୍ଷେପଗୁଡ଼ିକର ରୂପରେଖା ଦିଅନ୍ତୁ।
- Q.15"It may be time for the government to consider new legislation to replace the Armed Forces Special Powers Act, 1958 (AFSPA), as it has been ineffective in both preventing human rights violations and ensuring adequate protection for soldiers who risk their lives in the defense of the nation." In this context, examine the relevance of AFSPA in addressing contemporary security challenges.

"ସରକାରଙ୍କ ପାଇଁ ସଶସ୍ତ ବାହିନୀ ସ୍ୱତନ୍ତ୍ର କ୍ଷମତା ଆଇନ, ୧୯୫୮ (\mathbf{AFSPA})କୁ ବଦଳାଇବା ପାଇଁ ନୃତନ ଆଇନ ବିଚାର କରିବାର ସମୟ ଆସିପାରେ, କାରଣ ଏହା ମାନବାଧିକାର ଉଲ୍ଲଂଘନକୁ ରୋକିବା ଏବଂ ଜାତିର ପ୍ରତିରକ୍ଷାରେ ନିଜ ଜୀବନକୁ ବିପଦରେ ପକାଇଥିବା ସୈନିକଙ୍କ ପାଇଁ ପର୍ଯ୍ୟାପ୍ତ ସୁରକ୍ଷା ସୁନିଷ୍ଟିତ କରିବାରେ ପ୍ରଭାବହୀନ ହୋଇଛି।" ଏହି ପରିପ୍ରେକ୍ଷୀରେ, ସମସାମୟିକ ସୁରକ୍ଷା ଚ୍ୟାଲେଞ୍ଜର ମୁକାବିଲାରେ AFSPAର ପାସଙ୍ଗିକତା ଯାଞ୍ଚ କରନ୍ତୁ ।

- O.16 "Identify the major threat to wetlands in India. Discuss the measures taken at the national and international level in protection and conservation of wetlands in India."
 - ନିଆଯାଇଥିବା ପଦକ୍ଷେପଗଡିକ ଆଲୋଚନା କରନ୍ତ।"
- Examine the reason for increasing unemployment among Indian youths in recent years in India. Evaluate the role of state-specific initiatives, with a focus on Odisha, in tackling the issue
 - ଭାରତରେ ସାମ୍ପ୍ରତିକ ବର୍ଷଗୁଡ଼ିକରେ ଭାରତୀୟ ଯୁବକମାନଙ୍କ ମଧ୍ୟରେ ବେକାରୀ ବୃଦ୍ଧି ପାଇବାର କାରଣ ଯାଞ୍ଚ କରନ୍ତୁ । ଏହି ସମସ୍ୟାକୁ ପ୍ରଭାବଶାଳୀ ଭାବରେ ମୁକାବିଲା କରିବାରେ ଓଡ଼ିଶା ଉପରେ ଧ୍ୟାନ ଦେଇ ରାଜ୍ୟ-ନିର୍ଦ୍ଦିଷ୍ଟ ପଦକ୍ଷେପଗୁଡ଼ିକର ଭୂମିକା ମୁଲ୍ୟାଙ୍କନ କରନ୍ତୁ।
- Elaborate upon the growing issue of space debris in recent times. Also discuss the significance Q.18of ISRO's recent mission in achieving the zero debris target.
 - ସାମ୍ପ୍ରତିକ ସମୟରେ ମହାକାଶ ଅଳିଆର ବର୍ଦ୍ଧିତ ସମସ୍ୟା ଉପରେ ବିସ୍ତୃତ ଭାବରେ ଆଲୋଚନା କରନ୍ତୁ। ଶୂନ୍ୟ ଧ୍ୱଂସାବଶେଷ ଲକ୍ଷ୍ୟ ହାସଲ କରିବାରେ ISROର ସାମ୍ପ୍ରତିକ ମିଶନର ଗୁରୁଦ୍ୱ ବିଷୟରେ ମଧ୍ୟ ଆଲୋଚନା କରନ୍ତୁ।





MAINS TEST SERIES (Answer Booklet)

Roll No.	2023030
Name	Sidhant Mishra
Test No.	25 DPSC 6AS Mains Test Series 202:
Subject:	0S-111-2D
Date:	5/4/2025

Question Paper Specific Instructions

- All questions are printed in **English**.
- All the questions are compulsory
- The number of marks carried by each question (or part) is indicated in the question paper.
- Word limit in questions wherever specified should be adhered to.
- Any page or portion of the Page left blank in the Answer booklet must

clearly stuck off

Q No.	Marks obtained	Q No.	Marks obtained	Q No.	Marks obtained
1	7	8	5.5	15	
2	6.5	9	6	16	2.5
3	5.5	10	3-5	17	2·5 3·5
4	7	11	4.5	18	1
5	4	12	_	19	
6	5.5	13	3	20	
7	4	14	4		
				TOTAL	

Dean Aspirant,

- 1) You have very good Content and justified Content too.
- O Try to explore mone odisha relevent dimenssion in your Answer.
- Structure is good but do Strictly adhere to word limit.
- D'you Can draw dingrams, flow thant to improve presentations.
- Maintain neatness in your Answer keep writing An the Best?

Grow-A Private investments as essential to building a stable huje manufacturing and further profits to induce growth tinfortunitaly India 2024-25 le an indication hinder Indea's goal of Key challenges to \$5 to don evonome enecks and Bureaucratic Hurdles [e.g.] Land acquisition detays, GST compliance issues I du to enturile policies, Indea focussed more on sewer and [e.g.] Inadequate roads, power shortages politication of informal grintter inferior growth numbers This hen led to lower capacity Building Access to Finance [e.g.] High lending rates, limited angel investments I Indea has been beset with coalities polities reactive than capital investments.

Skilled Labor Shortage fire investments by the private rector in
[e.g.] IT skill gaps, lack of technical edition
- Breamed thes, the private sector in Indla
has always followed flobal trends readily to
polly & my Cimintalion delays.
Inconsistent Policy Implementation over callence and climate change
[e.g.] GST implementation, labor law reforms
> with 750%. If people dependent on
apriculture thus is sainfed, there is
Encuasing turbulence and uncutainties in the
nerket leading to price fluetuations etc
Political Instability and Boverntance Issues senched player and Clader
[e.g.] State-level taxation issues corruption in approvals the form of the powers
to poulde for more tremplet to farmers.
vociferous op venibion to forme caus.
B) V) Different judicial pronouncements on similar cases.
Taxation and Compliance Burden — challeyes Jacky Indian
[e.g.] Tax audits, corrector tax filings at needs went nevolution to
where in a high growth model to trainform
to a \$5 tm evonomy is to some nighten
could be!
Environmental and Sustainability Challenges Hurualton Hnyh
le a Mining sector regulations water scarcity
Mindset
1) Foster & none Communication no between
policimakers and inglimentoss.

Candidate must not write on this margin.

Ut) & Romp up releance on nanufacturing through suitable policy devision. -> "Make in molia" a step in the right direction of of schones also very important leading to \$ 10 thousands of crover of inveniental smertments do rectors Inefficient Land and Labor Warkers privace o selve to composite to [e.d.] SEZ development labor strikes development through Anusandhan and Lesemen Foundation and deliberations with NITI Aayog. W) mittate agricultural reforms through Weak Ease of Doing Business Ranking / Proach to effect go balance [e.g.] Business registration elections poor fortract enforcements and surfamable growth > Rely formou on ago-dématic rone Comed forming theried farming and agripeneurship and food processing VI) Inprove juddeial account abilely strongh judicelel referms through recruitment betterment, with a conjerature farrework to-effect o to change in the system. There nyjections would garrely oursone the Challenges facing Indown agriculture purling us into an economic poumboure weltra & tomeromany.

10 malle tulturon improved etc formall inculation awoulsess and awereninabout my Proudcline Loursed fourners averefacturers 57 MSMES et c inclusion acture rancial Inclusion Initiatives [e.g.] Jan Dhan accounts unlide financing Wheliho ords njaint o voudes unskilled 18h, mid also Candidate must not write on this margin. Page No:....

infrastructur derelopment in syncwood stresschenes. 1) PM Gram Sadak Yafana
1) PM Gram Cadak Malana
The state of the s
I provider roads communition to wideye own
Total and the state of the stat
unionmeted to sutalled roads, promblery
Skill Development Programs
Skill Development Programs
[e.g.] PMKVY, skilledevelopment contendualopment, market availability of
un) Atmanishan Bharat Chample?
-> Provides inventives to boost manufacturity &
Reservation and Affirmative Action [e.g.] Reserved seats in an interpretation of the seath of t
Reservation and Affirmative Action
[e.g.] Reserved seats in an interstition proverning the tops to a thing nutrition and
community Apolitical Community and late is
immunity fortung community participation
(v) PM - e - Vodya scheme
10) PM - e - Vodya scheme
Social Security and Wolfer Angeltadehoe Transcription August 2 mag Aug
Social Security and Welfard Welferthes access to dura himal Mahubes
[e.g.] MGNREGA, pension schemes for the elderly budying gap between
educational traction of retention.
White the
- Boots skelladuly meanily further economic
Support for Women Empowerment (h)
[e.g.] Mudra loans for women, gender-focused education
- medical
moudes assuance programme positing
ketter hearth and growth of allet sectors
Whe neellical devoluse etc.
Inclusive Agricultural Development
[e.g.] Crop insurance, low-interest loans for farmers
heattly werkforce I have motivated
work force

3	Autinuluobial resistance (AMB) es a florer phenomeno
(3.5	where pathojens develop sentitunce to considerate
	con so that there have no effect on such missours
	homing hearth indicators of as counten people.
- 1	Such senstance are happenen for sureral designes
In	to take To typhoidek that may useak hourse
	in 20 for modical through selding.
	60 thy factor contributing
	1) Justiceut repulation and Cepirlation
Ove	eruse and Misuse of Antibiotics
[e.	1.] Antibiotics for told/flu, address to drugs areas by threat of AMR.
	For manuple Epidemic diseases tel focats
	people as appenors rather than wichlaws.
Ina	dequate Infection Control in Healthcare Settings
[e.	.] Contaminated medicate quirement overefewded hospitals yacily windling
	as seduced skul level.
-	1) Agriculture and leverber sector
	ck of Proper Surveillance and Data
[e.c	Lack of AMR databases, limited research funding le Congust contributor
+	to AMR,
Adı	ricultural Use of Antibiotics defense) are used among voulty et
[e.c	J.] Antibiotic use in poultry, unregulated veterinary practices
-	to provide defence against andonobial attacks.
L	- Enemine maye linkus sentience units
C	andidate must not write on this margin. Page No:

menoso, forteur, AMR.
u) Excensue drugingesten wethout presuption
> There is over reliance on over the counter dry
rellure partients don't go to doctor but take
dry admission from soudhele Chenniets.
[e.g.] Limited access to healthcare in Rural Areas [e.g.] Limited access to healthcare, non-compliance with prescribed courses V V V V V V V V V
I this has become a growing wroblem findly
Craming public Beath have the factoring further
AMR.
Environmental Pollution and Contamination
[e.g.] Pharmaceutical waste in rivers, sawage contamination he grown runce
) omprove implementalion of laws and repeal
outdaled laws
Over-the Counter Availability of Antibioticsily building and Hondonshof
[e.g.] Over-the-counter sales, pharmacy self-medication moseminas.
(1) track down on ollyal dry. syrragh
concerted can & order effects coffets L
boider arangiment
Cutural and Socioeconomica Factors encembre may a autibéoteles
[e.g.] Traditional medicine, lack of awareness fund the state of the s
adhunce to Aceen watch Reserve of 1440
and improved law implementation and

- awereum juneration
· ruse adplial doubboards Hools for arming
and toneing dry i'mprovery toningareny &
accountability.
Inappropriate Pharmaceutical Marketing
[e.g.] Promotible of broadspectrum antibiotics, in medes bary prestriptions y helpful
in fackling the groundy nurse of AMR, to
forthe hearthy Turky mough show RAD
invertments, proper & effluent implementation.
and capacity Buliding
4) Recently, the odisha povernment launched the
1 tate budget 2015-26 that facuned on
agriculture enjumion, Expaidly conhamement and
also capital inventments fourning making
Oddsha an evonomic populations in white
Turnodoya religion. C. Tahanta Man
fair miles
Key highlight
To say vigocignary
D Final Juddcatus
- oddelia continued els science simplees status
Fiscal Indicators; the Best Fiscal health management,
Programme Expenditure 14/0,000 crare 158/62% of Anguidital buildaet), indicating/a focus on
developmental programs.
-> Majoy Maroy sureme severators were
1 services Sector along with non-ton xuenue
Candidate must not write on this margin. Page No:

form mining.
- Also, there is growth of tornism sector; selephym
Capital Outlay: ₹65,012 crore (6.11% of GSDP) the highest proportion among major Indian
states, highlighting significant investment in infrastructure.
There is growth of fare revenue from GST
improutry dates capital impenditues
Revenue Surplus: Problegged as repend of stope, ensuring discrete ponsitivitude and
Capital development
1 Alw. on manufacturing and dufrastruliene
Fiscal Deficit: Estimated at 3.2% of GSDP, slightly above the previous year's 3.1%, reflecting
ongoing fiscal consolidation efforts. Il Major policy mithalities
Tours on comprinuous middley, with
rhyroads and other definition playley
a byrde
Acriculture and Rural Development:
Agriculture and Rural Development: devoughty the NH-16
Samrudha Krusha Yojana 700000 grore allocated to catanda fammers' incomen h
CIVI Kisan Yojana 2,020 crore for direct financial support to farmers.
- Found tourism enter direcopment.
Shree Anna Abhiyan: ₹600 crore to promote millet cultivation.
Antyodaya Gruha Yojana ₹2,603 clore for constructing 75,000 houses for the
underprivileged. manufacturly grantly and
mesence . Manufacture clocked
double - digit fronth - (12)
Reliance messen to food prouming
indentiles to fourier it away from
mining
growth of education and death with auge
Candidate must not write on this margin.

Dry licalion for conomic d'evelopment in
Infrastructure Developmentale
Mikhya Mantri Sadakovofans ₹3: Actornal togor rural condition provem dosoup infrantanta
Mukhyamantri Sahari Vikas Yojana 1,100 crore for urban infrastructure project.
Atal Bus Stand Scheme: ₹1,266 crore for developing 133 bus stands.
integrenenahip.
(1) Would lead to the development of The
youth, importing englog ability and industral
Social Sector:
School and Mass Education: 231,885.47 crone to tenhance advocational facilities win
Panchayati Raj and Drintellog Water. \$28,45 Crofe for rural development and white schools. R & D & I'muest went, boorting evonomic orough.
Health and Family Welfare: ₹22,741 crore to improve healthcare services. The services of the
generation
New Initiatives: I through Insuffment on believe system, and
Shree Jagannath Darshan Yojana: ₹30 crore to facilitate pilgrimages to Puri's temple.
Subhadra Sprakhya Yojapa 7158/ crore for enhancing security measures.
Bakul Bana Unnayana: \$50 cttyd for for for strest de Blopshade Anna and woffee,
Cold Storage Policy: ₹60 crore to support agricultural storage infrastructure. dwelopment whe Cold chewin Horage
warehousing -
Conclusion is fine
Three Her Oderha Audjet presents a vey
Syportunity to leastry activalia into a developed
Candidate must not write on this margin. Page No:

Hale with soo on dollar exanous By 2030
hosting people's westare & ceonomic growth.
postering people - grant and grant a
6 Odisha witning the disastrous him cyclone
(2) that the in 1999 that led to 10000 canulter
total (on o) defrantauture, welth dasheel
liopes. After that a so renewed focus was
putpost on I distante n'ik reduction and management
through nitication and adaptactor that has
goven back beye devidends providing best
gradius for other to follow. To the Com to
Concised
Odödia's tountemation in case 2 diedes
10000
1) Odisha focumed on 8 tomobella compueblen ?
Formation of the Odisha State Disaster Management Authority (OSDMA)
Formation of the Odisha State Disaster Management Authority (OSDMA)
[e.g.] oxbinas role, cocramos or between agencies
emotion through investment demands Shalls
form the contral experient
Improved Farly Warning Systemsure ed on effective communication
[e.g.] IMD collaboration mobile-based alerts, 9
apple and of the months and make
the same at wal- there
Commencer at the second of the
[e.g.] Volunteer training community preparedness was a second of the sec
help to Buillaum whowent toescape and also
Candidate must not write on this margin. Page No:

to fartback elief after desarter.
. I It found on Capacity building of the courtal
Coastal Protection and Infrastructure Development [e.g.] Cyclone shelters, flood barriers
[e.g.] Cyclone shelters, flood barriers
manage délaute n'4 R.
vi) Agent from this numeron SHy development
to proudele usque finance & finide to
Integrated Disaster Management Planning after a desarte to
[e.g.] Multi-hazard plantring resillence strategies
This provided dual benefilt - women
evisyoguerment and delastu n's Kniducky,
With Suite.
So odher focused on millgardon adaptaken
taking the people at the centre of policy
inglementation to provide a disaster management
framework that is globally appreceded.
Cessons that combe learnt from Odsha
Importance of Strong Institutional Frameworks
[e.g.] OSDMA model, institutional coordination
1) People celleric golding.
Community-based Preparedness 1) mullent communication channels
[e.g.] Village-level preparedness, local disaster management teams and multipuble
Whocus in Integrated Francework
Early Warning and Communication Systems
[e.g. Mobile alerts, satellite data use (V) Capacity Bevilding.
houlde (V) rechnology development and usage of
nelstad .
Gorcearts chical-time.

muligation efforts Group-B In 2016 to Fo moudde 97 has [e.g.] ₹6,000 per year impreved cash flow there funds boost their level the and help them bridge me resource and mome gap San Defiendency Implements food vains Candidate must not write on this margin. Page No:....

Promoting Financial Inclusion	010
·[e.g.] Jahr Dhan actourner intreased barrentalisted met	al sairly dury
place of agricultural de	then like droughts
floods or untimely rain.	
Encouraging Government & Human	Singer Mil arread
le a LDBT (Direct Benefit Transfer) reduced corruption	The same
[e.g.] DBT (Direct Benefit Transfer), reduced corruption	
leading to better enfrastructure	development &
named the should the meal	Commence State In 11
Supporting Sustainable Agricultural Practices mul	- succession fair in fine
[e.q.] Eco-friendly practices investment in modern inputs	
Comment of the state of the sta	ant could be office
Come further sugertrois H	not would be power
A	the state of
The state of the s	10
Targeted Financial Support	points
[e.g.] Caphtransfers, hinancial inclusion	
(Amost from 6000) [1] Invest on	wy must in
to 10000 or more and consuct firming	e-AD mannetis
Integrating other support systems for Butunie	throwy APMC
[e.g.] Integrated schemes; combined reform	Act changes to
[e.g.] Integrated as the destruction of the second of the	I promote mentel
	(Winkayes
Technology for Transphrency and Effection of the Effectio	
[e.g.] Digital payments, data analytics cleve lopment	(V) Promote & Incentione
to country threats from	formus to mours
unseavoural minfall 2	semmerative crops
	Wer dragon fruit
Collaborative Efforts Between Stakeholders house [e.d.] State partnership, local partnerships	
[c.gr] crate partition of the partition of the	housey with off got entitle
	1 1 more mysour
	1 corning
Candidate must not write on this margin.	Page No:

There are trains around to
There nyestron would fortua longten
improvement in apaculture rendering et more
reddent shamener before to handle unentainties
Beceutly form SNEP & data and reports along
1) with Fice reports, it has been clear thank
radialoresta of the states are resident with a
rainforcits of the globe are rapidle dielous,
Including menicely in the donaton. Comidenty
Mr. Fullis and the last a second second
at they are the things of the earth of the sometime
to wollege I insternent nothings to paternand
The sufference of implement policies to safguard in your face for surfainable develop
in there trajucal forests for surfainable develop
ment.
Effett to rafepunn topical rainforests
April on the state of the state
Stronger Proforcement at Bulgras Aphalana Communication through
ot original Enforcement of Deforce auton Laws
[e.g.] Brazil's "Forest Gode" Indonesia's legging bank, to with on
plobal commons
(a sice common)
- UN win Mobal Platform, promotion
Promotion of Sustainable Agriculture and Agroforestry
[eg.] Shade grown coffee, agreeforestry models me to forthe debalin
and desumens.
- There is a need to empower and reform
Expansion of Protected Areas and Forest Reserves
[e g.] Amazon's indigenous reserves, Congo Basin reserves
Threat through governance reforms
and develope intermed
and fring refring
(1) Promote Country and Encentioner them enjoyed
Candidate must not write on this margin.

in psafemading of forests et prazil, compo.
Az Mune countreles que one of the most underductiped
incenthues and economic development should
Enhancement of Complete posted at the envation the solicions not reliant a mounce
[e.g.] Community Forest Management in India Indi
(4) miretue modernom communicher en dage
Climate Financing for Forest Conservation [e.g.] REDD+ programmen and men and project sclating for Much homelands.
For example file African Maasai Community
Loued de represented in plotal fina WELONGA
NEP etc Month Heler representatives
[e.g.] COP decisions, REDD+ agreements
Promotion of Sustainable Supply Chains
Promotion of Sustainable Supply Chains [e.g.] Roundtable on Sustainable Paint Sil (RSPO), Forest Stewardship Council (FSC)
alternalities.
V) muert on afformation programmes for
Forest Restoration and Referestation Unitiativest yether Man felling of
[e.g.] Bonn Challenge, India's Green India Mission
I this proudder a justainable somme forwood
Scientific Research and technology Deploymenty freits hawly underwed consequence
[e.g.] Global Forest Watch space-based forest monitoring sturbing surger
RAD, improved gields con chemical
ferticises & mongreen manne promoting
resource sustainibility. In wear away people
you cleany forests forsettement.

Vy) Brenite population control programs acronthe dole se effect a surfainable resource showly rather Humdepulton There efforts cande inglemented to sufequend our ly opi cal forests from for fruttur deprodation, It is also Emperatelle that we implement the Kunming - Montral Biladelienty Franciscop In letter and spirit. Technology has acted as both un enabler of and a challenge to national seculo through Improved transparency, better tracking and management, but at the same fine it is has underwined privacy platformed terrior groups and organised admi Syndolalis spettin up contratilations on how to deal with the negative consequences of technology. In this content, Isocial needed lian Come up us a great enabler of Jufamating and as a great equality proudling meful benefits, but also enaling forming's better and efficient tracking of events. Candidate must not write on this margin. Page No:....

Real-Time Intelligence & Sthering power cuyay to track wiminstre [e.g.] Monitoring extremist content, tracking suspicious behavior 4 9+ can be med for 10 verification through Sould medda
Soudal medda 1D verification Huroup
Sorbal medda
Social needla
Early Warning and Crisis Manageddentel for Border securety and to [e.g.] Twitter feeds during emergencies, Instagram for live updates
97 combe med for finances trackery,
Counter-Terrorism and Radicalization Grevention otalest founds of through
[e.g.] Tracking extremist forums, montoring radical YouTube videos
v) It would boost tracking of Trafficking
Public Engagement and Communication [e.g.] Facebook alerts/folionissing persons typither forestolic satestulub dates
- It could be made wented through
AT-ML fechniques.
Collaboration with Private Tech Companies used for mostly communication for the contraction with Facebook on terrorism-related content, Google on fatalencryption
Communal harmony benefities national
e curily.
Ma.
Insormately italia a project some
Charlenn by mell
I Reduced provacy that can lead to a
portice state.
Candidate must not write on this margin Page No:

	on people's lives leading to further barressment
Pri	vacy Concerns and Legal Frameworks brofficking one difficult to track of John Europe, Fourth Amendment concerns in the U.S. Lending to problemation of organized cultures.
+	k of Misinformation and Fake Newsluly Known of the cyps 1.] Disinformation campaigns, fake news during elections Mentioned by the sprange Knowseller Mentioned by the sprange of the company of the comp
	There problems are homograpy law enforcements
6	cycnilis in proper entrancing national Seming. Notifice need of the how is to invar (apprily 15 Parillary, use ATML treknoques to Track or money aundedry 9 terror femonday
	leading to dueproved sensity architecture.
9	Oddehe is a land of environmental when week Immense Edadduernity and natural
6	Beauty . There contribute to econstom sender
	cononuc benefits. Vafntmacky shey are also fine of innene challenges must neids
	tent revolution. to promote such as models of growth. Can be beffer

de commune a registration of addition
de conomic réprifécance et Oddelas congrétais
- Curren
Agricultural Productivity and Livelihoods were larger ponds providely [e.g.] Coastal aquaculture, rice farming in floodplains
aquaentine services to former, boarting innounce
u) Also, there are several or Ramisan sites for
Water Resources and Irrigation [e.g.] Mahanadi river Makin, floodplaitemigation groundwale wellery.
[e.g.] Mahanadi river Masin, floodplaite anigetism groundwalu wellery.
(4) They proudele sourdon benefilt welcts
Fishing and Marine Resources (wellhood sometimes promoting
[e.g.] Chilika Lake Mshelesmarine fletued ported and the houndlosm,
evonomically all some benefits
[e. u.] Sal, bamboo, honey, medicinal plants mulle unful revues
Whe fault negetable tomber and especially
for the tribals, they poudde monorforest
Tourism and Eco-Tourism roduce, boarking unterpoled why
[e.g.] Wildlife tourism, bird-wet daing at Children
De Carleys faced
) menandy unbandgablen leading to unhan
Deforestation and Habitat Degradation Cleanly of forests I walter
Deforestation and Habitat Degradation
[c.g.] Willing III tribul dieds, loss of forest devel
Uplanned insume attom, reading to control
ouer partue leuds & redeuly Meir

eromptem service potenplat
Pollution and Climate Offange Pollution
[e.g.] Industrial effluents in rivers cyclone frequency increase duritly Into
dues stocam mittout treatment Cearling to
Belodehersity declare yout from he alto votues.
Overexploitation of Land Commons
[e.g.] Land encroachment, unsustainable grazing
Need for sustainable polledes
i) since economic dellesponent cannot be stopped
completely hime there need for
entainable polities
[e.g.] Integrated Coastal 20ne management, community forestily and unbownless Hay
Melyaware netted could be used for
Whom forests, fortune ferris erosystem
serveus. example?
Community-Based Resource Management
[e.g.] Joilt Forest Management (JFM) Community rule fisheries the Chilika yt mutuable
Unclinood
Jeg. organic forming, life initaline
Promotion of Sustainable Agricultural Practices
[e.g.] Rainwater harvesting, organic farming infloodplains every generation Moved be followed
W truck down on polletion nailly
nuevine pollection a to faite a cleaner
Policy and Legal Reforms for Resource Rights [e.g.] Forest Rights Advisip Policy Resource Rights [e.g.] Forest Rights Advisip Resource Rights [e.g.] Forest Rights
meater evantability troundwater rechair
mene unereachment are continually diared.
and occorded,

· There supertroin cause med to dute
maket policy changes to effect their weful new
I sough serius agriculture rounder mel
better health of the common people.
(10) A Junevenly and enbrunt provide seeber
is mucostant for an internal would and
35) transfermation through digital tools, RAD
mitatives, technology absorption, effectent
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(GS PAPER III: FULL SYLLABUS)

GROUP A

Q.1 Answer

APPROACH:

Introduction: Define a conducive investment ecosystem and its role in economic growth.

Body: Discuss key challenges - policy uncertainty, infrastructure gaps, regulatory hurdles, financial

constraints, and global economic factors. Provide relevant examples and data.

Conclusion: Suggest reforms to enhance investment, ensuring sustainable economic growth.

Introduction:

Economic Survey 2018-19 has advocated "Investment" and especially private investment to be the key driver of a virtuous cycle of productivity, jobs, export, demand and savings to realise the goal of \$5 trillion economies by 2024-25.

As per Economic Survey 2017-18, India's Investment slowdown of 6-7% from 2005-07 to 2017-18 is largely driven by a slowdown in private investment. Therefore, it is crucial in reviving private investment as can be seen from the examples of China (45% investment rate), Japan (1950-70), the Asian tigers, etc.



Body:

This virtuous cycle will be a catalyst for India to achieve an annual real growth rate of 8% to make India the world's 3rd largest economy worth \$5 trillion by 2024-25. Therefore, the government has taken several steps like Make in India, Startup India, etc, to boost investment.

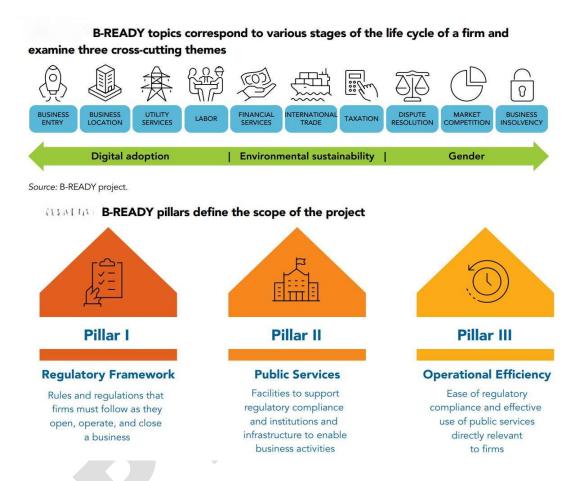
However, there are several obstacles in the way of achieving a \$5 trillion economy led by private investment:-

Issue	Details		
Twin Balance Sheet	Though reducing, the rate of Non-Performing Assets (NPAs) is still high (9.3%),		
Problem	affecting the lending capacity of banks and the demand for loans from		
	corporates, particularly in sectors like power and telecom.		
Liquidity Crisis	The IL&FS crisis led to a liquidity crunch in the financial market, reducing fund		
	availability for investment.		
Low Rate of	Investment rate is at 29%, which needs to rise to 36% (as per NITI Aayog) to		
Investment & Growth	h achieve the \$5 trillion economy goal.		
Slowdown			
Poor Ease of Doing	India ranks low (163rd) in contract enforcement, dampening investor		
Business	confidence.		
Agricultural Distress	High variability and low productivity in agriculture reduce the purchasing		
	power of the majority of India's population.		
Late Converger Stall Economic Survey warns of challenges like rising protectionism, struct			
	transformation issues, poor education & skill development, and climate change		
	effects on agriculture.		



India imports over 80% of its oil and 50% of its natural gas

Energy Dependence	india imports over 80% of its oil and 50% of its natural gas, making it vulnerable		
	to currency fluctuations and geopolitical risks.		
Second-Generation Reforms	Slow reforms in land, labor, and skilling reduce investor confidence.		



These obstacles, along with global slowdown risk, low rate of exports (1.7% for goods) etc., need to be resolved at the earliest to reignite the "Animal spirit" of private investment in the economy.

Conclusion:

Focusing on resolving NPAs, MSMEs slowdown, and liquidity crisis should be the top agenda of the government. Along with these, taking holistic steps on the sectoral problem of Agriculture, manufacturing and services should be the priority. Recent steps like project Sashakt, KISAN scheme, Foreign trade policy, improvement in Ease of Doing Business ranking, etc. are steps in the right direction.

O.2 Answer

APPROACH:

Introduction: Define 'active inclusion' in the context of sustainable economic growth and its significance in ensuring equal opportunities for all.

Body: Explain key aspects of active inclusion, such as social protection, inclusive labor markets, and equal access to resources. Discuss government measures like MGNREGA, Skill India, and social welfare schemes.

Conclusion: Highlight the role of active inclusion in fostering economic growth, reducing inequalities, and achieving sustainable development.



Introduction:

Active inclusion refers to both the 'pace' and 'pattern' of growth. Active inclusion is that which increases capabilities and allows more people to contribute to and participate in the benefits of growth. Pure economic growth can lead to inequality as a long-term cost, while active inclusion seeks to ensure that benefits are distributed 'equitably' among all sections.

Active inclusion empowers by increasing rewards to work, thus creating conditions for the many to contribute to and participate in the growth process. Expenditure on agricultural productivity, health and education, employment and MSME credit will all aid active inclusion.

Body:

Core components of active inclusion:

- Adequate income support to the employed, quality employment generation, inclusive labour markets.
- Access to essential services such as housing, education, finance, health, social security, etc.
- Removal of gender, caste, communal barriers.

Steps taken by the Government and their role in Active Inclusion:

Category	Schemes/Initiatives	Objective	
Employment and Labour Welfare	Parampargat Krishi Yojana	Promotion of organic farming, integrated farming, and livestock to double farmers' income.	
	PM KISAN	Input support to farmers for agricultural growth.	
	Make in India, Start Up India, MSME promotion	Creation of quality jobs in the manufacturing sector, reducing underemployment in agriculture and allied sectors.	
	PM Shram Yogi Mandhan Yojana	Social security for unorganised and small-scale workers.	
	Coastal Employment Zones (CEZs) under SAGARMALA	Promoting large-scale production for exports, overcoming the limitations of SEZs.	
Access to Services	PMAY (Rural and Urban)	Providing affordable housing.	
	Article 21A	Free and compulsory primary education.	
	Ayushman Bharat, Mission Indradhanush	Health initiatives including vaccination, institutional deliveries, and healthcare services.	
	ICDS, MDMS	Nutritional support through Integrated Child Development Services (ICDS) and Mid-Day Meal Scheme (MDMS).	
	JAM Trinity, Stand Up India, MUDRA loans, SIDBI, NABARD	Financial inclusion and credit access for rural development.	
	Employee State Insurance	Social security initiatives.	

	Corporation, Atal Pension	
	Yojana	
Bridging Gaps	Beti Bachao Beti Padhao (BBBP)	Empowerment and education of the girl child.
	Maternity Benefits Amendment	Enhancing maternity benefits for working
	Act	women.
	Sensitization of police and	Addressing communal and caste-related issues.
	administration	
	Black Money Act, Fugitive	Tackling economic inequality and financial
	Economic Offenders Act	fraud.

Conclusion:

Inclusion is essential for sustainable growth but only active inclusion is sustainable. Since India still reels under inequality, poverty, health and other challenges, the government must fulfil its duties under Article 38, 41, 42, 43 of Directive Principles by better implementation of the above programmes.

Q.3 Answer

APPROACH:

Introduction: Define antimicrobial resistance (AMR) and its implications for public health.

Body: Explain the mechanisms of AMR development and key factors contributing to antibiotic resistance

in India, such as overuse, self-medication, and lack of sanitation. Provide examples.

Conclusion: Emphasize the need for stringent policies, awareness, and research to combat AMR.

Introduction:

Antibiotics are drugs that treat infections caused by bacteria. When certain bacteria are no longer eliminated by previously curable antibiotics, and thus become resistant to the effect of those drugs, it is known as 'Antibiotic Resistance'. Antibiotic resistance is a naturally occurring phenomenon that can be slowed, but not stopped. Over time, bacteria adapt to the drugs that are designed to kill them and change to ensure their survival. For example, in the case of Methicillin-Resistant Staphylococcus aureus (MRSA), the bacterium, S. aureus, is no longer killed by the antibiotic, methicillin.

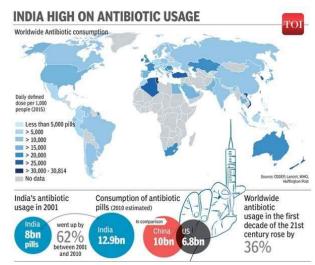
"Superbugs" is a term used to describe strains of bacteria that are resistant to the majority of antibiotics commonly used today.

Body:

Antimicrobial Resistance in India:

"The Scoping Report on Antimicrobial Resistance in India" prepared by DBT shows India has some of the highest antibiotic resistance rates, particularly the Carbapenem class of antibiotics, one of the last-resort antibiotics to treat serious bacterial infections in humans, and resistance to them among various gram-negative bacteria was extremely high.

In India, 60,000 newborns die each year of Antibiotic-Resistant Neonatal Infections. The report also shows the highest prevalence of MDR-TB in India across the world. **Factors Responsible in India:**



UN Adhoc Interagency Coordination Group (IACG) on Antimicrobial Resistance Report listed out various reasons for spread of AMR in Indian setting:

Category	Issues		
Misuse of Antibiotics	Overuse, misuse, and abuse of antibiotics like Colistin due to self-medication and incomplete courses.		
Hospital Acquired	High prevalence of infections such as MRSA (Methicillin-resistant		
Infections	Staphylococcus aureus).		
Agricultural & Livestock	Poor hygiene in poultry farms driven by profit motives, leading to excessive		
Misuse	antibiotic use.		
	Overuse of fungicides, leading to Candida auris becoming a superbug.		
Cultural Factors	Negligence of hygiene during mass gatherings like Kumbh Mela.		
	Increased non-vegetarian consumption for protein requirements.		
Regulatory Issues	Lack of regulations to control antibiotic overuse and faulty medical practices		
	such as pharmaceutical waste disposal.		

Way forward:

- Strengthening surveillance, regulatory frameworks, professional education and oversight of antimicrobial prescription and use, and increasing awareness among all stakeholders are also significant.
- India's medical societies in 2012 adopted the Chennai Declaration, a set of national recommendations to promote antibiotics.
- Taking the learnings forward from the implementation of the National Policy on containment of AMR and subsequent the National Action Plan on AMR 2017-21 should be implemented with letter and spirit.
- **India's Red Line campaign** which demands that prescription-only antibiotics be marked with a red line, to discourage the over-the-counter sale of antibiotics is a step forward.

Conclusion:

The National Health Policy, 2017 also terms antimicrobial resistance as one of the key healthcare issues and prioritises development of guidelines regarding antibiotic use, limiting over-the-counter use of antibiotics and restricting the use of antibiotics as growth promoters in livestock.

O.4 Answer

APPROACH:

Introduction: Provide an overview of the Odisha Budget 2025-26, highlighting its fiscal objectives and overall economic vision.

Body: Analyze key fiscal indicators, major policy initiatives, and sectoral allocations. Discuss trends in infrastructure, social welfare, and industrial growth with relevant examples.

Conclusion: Assess its potential impact on Odisha's economic development, fiscal sustainability, and long-term growth prospects.

Introduction:

The Odisha Budget 2025-26, presented by Chief Minister Mohan Charan Majhi, projects a GSDP of ₹10.63 lakh crore with a 12% growth rate. The budget focuses on rural development, infrastructure, and fiscal discipline while maintaining a revenue surplus and managing a fiscal deficit of 3.2% of GSDP.



Body:

Fiscal Indicators

Indicator	Value
Revenue Surplus	₹31,800 crore (3% of GSDP)
Fiscal Deficit	₹34,200 crore (3.2% of GSDP)
Expenditure	₹2,66,800 crore (9% increase from 2024-25 RE)
Receipts (excluding borrowings)	₹2,32,600 crore (8% increase)

Major Policy Initiatives

Scheme Name	Allocation	Purpose
Antyodaya Gruha Yojana	₹7,550 crore (over three years)	Housing for the poor
Mukhya Mantri Sadak Yojana	₹3,470 crore	Rural road connectivity
Mukhyamantri Sahari Bikas	₹1,100 crore	Urban infrastructure
Yojana		development
MLALAD Scheme	Increased from ₹3 crore to ₹5 crore per	Local area development by
	constituency	MLAs

Sectoral Growth Trends

Sector	Growth Rate (2024-25)	Growth Rate (2023-24)
Agriculture	3.8%	7.6%
Manufacturing	6.6%	8.7%
Services	10% (highest contribution to GSDP at 37%)	-

Per Capita GSDP

Region	Estimated Per Capita GSDP
State	₹2,03,085
India	₹2,30,195

Major Policy Initiatives

• Antyodaya Gruha Yojana:

- o Aims to provide concrete houses to poor families affected by poverty, disasters, and displacement.
- ₹7,550 crore allocated over three years, with ₹2,603 crore for 75,000 houses in 2025-26.

• Rural and Urban Infrastructure Development:

o **Mukhya Mantri Sadak Yojana:** ₹3,470 crore allocated to improve rural roads and connectivity.



- o **Mukhyamantri Sahari Bikas Yojana:** ₹1,100 crore for civic amenities in cities.
- o ₹200 crore for developing 322 hectares in Bhubaneswar for IT, research, and service sectors.

• Legislative Area Development:

o **MLALAD Scheme:** Annual allocation per constituency increased from ₹3 crore to ₹5 crore, with a total allocation of ₹735 crore.

Category	2023-	2024-25	Remarks
<i>.</i>	24	(Projected)	
GSDP Growth Rate	-	7.2%	Higher than India's 6.4%
Sector-wise Growth			
Agriculture	7.6%	3.8%	Decline indicates challenges
Manufacturing	8.7%	6.6%	Industrial slowdown
Services	11.5%	10%	Fastest-growing sector
Sectoral Contribution to			
GSDP			
Agriculture	-	28%	Significant share
Manufacturing	-	35%	Strong industrial base
Services	-	37%	Largest contributor
Per Capita GSDP	-	₹2,03,085	Lower than India's ₹2,30,195

Implications for Economic Development

1. Fiscal Stability and Growth:

- o A revenue surplus of **3% of GSDP** ensures financial stability.
- o Increased capital outlay (17% growth) will drive infrastructure-led growth.

2. Infrastructure and Employment Generation:

- Rural and urban connectivity projects will enhance trade and employment opportunities.
- o Investments in IT and research sectors in Bhubaneswar will boost skilled employment.

3. Social and Economic Equity:

- o The **Antyodaya Gruha Yojana** addresses housing needs for vulnerable populations.
- The enhanced MLALAD scheme empowers local governance for region-specific development.

4. Challenges and Concerns:

- Declining growth in agriculture and manufacturing sectors may impact overall economic momentum.
- The fiscal deficit at 3.2% of GSDP remains within limits but requires efficient debt management.
- Lower per capita income than the national average indicates the need for more inclusive growth policies.

Conclusion:

The Odisha Budget 2025-26 emphasizes balanced economic growth with significant investments in infrastructure, housing, and rural development. While the revenue surplus and fiscal prudence indicate financial stability, the slowdown in agriculture and manufacturing poses challenges. Strategic policy implementation will be crucial for sustaining long-term economic growth and improving living standards in the state.

Q.5 Answer

APPROACH:

Introduction: Highlight Odisha's vulnerability to natural disasters and the need for an effective disaster management system.

Body: Discuss key initiatives like early warning systems, community preparedness, cyclone shelters, and policy improvements. Provide examples from Cyclone 1999 to present.

Conclusion: Emphasize Odisha's success in minimizing disaster impact and the key lessons for other regions in resilience and preparedness.

Introduction:

Odisha has undergone a remarkable transformation in disaster management since the devastating Super Cyclone of 1999. With a goal of 'zero-human casualties,' the state has developed a robust disaster preparedness framework, making it a global model in disaster resilience.

Body:

Key Aspects of Odisha's Disaster Management Approach

Key Aspect	Details	
Institutional	Odisha was the first Indian state to establish a disaster management authority	
Framework	(OSDMA) in 1999, before the NDMA was set up in 2005.	
Community-Centric	Local communities, self-help groups, and trained volunteers play a central role	
Approach	in disaster preparedness, risk reduction, and relief.	
Early Warning	Odisha has a last-mile early warning system with sirens, watchtowers, and mass	
Systems	messaging across 1,200 coastal villages.	
Disaster-Resilient	Over 800 multipurpose cyclone shelters, evacuation roads, and embankments	
Infrastructure	have been built to mitigate cyclone impact.	
International	Partnerships with global organizations like the World Bank have strengthened	
Collaboration	Odisha's disaster management capacity.	



Network of OSDMA See. State Level Natural Calamity Committee under chairmanship State Chief Minister Governing Body of OSDMA under chairmanship of Chief Secretary Revenue and Disaster Management Department, Govt. of Orissa Scientific & knowledge Red Cross/ State Emergency Operation Centre **OSDMA** UN Agencies/ INGO/NGOs For Planning, Preparedness and Prevention Activities ODRAF Zilla Parisad Fire District Collector Stations District Emergency Operation Center **Block Development** Penchayat Samiti Tahasildar Officer Gram Panchayat **Nodal NGO** Cyclone/ flood Sh Cyclone/flood Shelter Cyclone/flood Shelt Management and Management and Management and Maintenance Committe Maintenance Committee Maintenance Committee

Lessons for Other States and Countries

- **Proactive Planning:** Investing in disaster resilience before calamities strike reduces loss of life and economic damage.
- **Community Involvement:** Engaging local communities enhances disaster response and builds long-term resilience.
- **Infrastructure Development:** Constructing resilient infrastructure minimizes the impact of disasters.
- **Technology and Innovation:** Advanced early warning systems and real-time data can significantly improve preparedness and response.
- **Adaptability:** Disaster management should be dynamic, evolving with emerging climate risks and challenges.

Conclusion:

Odisha's experience highlights that disaster preparedness must be a developmental priority. With climate change intensifying natural calamities, governments worldwide must adopt a proactive, community-driven, and technology-integrated approach to disaster management.



GROUP B

Q.6 Answer

APPROACH:

Introduction: Define PM-KISAN and its objectives in providing direct income support to farmers.

Body: Discuss its impact on rural livelihoods, financial inclusion, and agricultural investment. Address challenges like beneficiary exclusions and implementation hurdles. Compare with other agrarian support schemes.

Conclusion: Evaluate its potential as a transformative policy and suggest improvements for maximizing its effectiveness.

Introduction:

Rural India, primarily being agricultural, is handicapped by issues of lower incomes, falling productivity, farmer suicides etc, whose manifestation can be directly witnessed through agitations all around like-Farmer rallies in Delhi, Silent marches in Mumbai. Apart from this, issues of migration, caste and gender barriers impact the rural distress landscape.



PM-KISAN is a structured income support scheme for small and marginal farmers owning less than 2 hectares of land. There are about 12.50 crore small and marginal farmer families in India. It is a direct cash transfer scheme providing Rs. 6,000 per annum, in three equal installments of Rs. 2,000 each.

Body:

PM KISAN can help alleviate the distress:

- Potential of greater efficiency in enabling poor households to directly purchase the required goods and services, as well as enhance their market choices.
- Utilization of income support to buy necessary inputs. E.g. Seeds, fertilizers, etc.
- Can act as a social security support during distress times. According to data from the All India Financial Inclusion Survey (NAFIS) released by NABARD, average savings per household in rural areas is only Rs 9650.
- It can reach about most of the farmer families compared to loan waivers that can benefit a maximum of 30 per cent of the peasantry, and the higher MSP policy which can benefit a maximum of 10-15 per cent of the peasantry.
- Help reduce agricultural indebtedness.
- Enhance rural consumption.

Limitations of PM KISAN:

Issue	Details	
Inadequate Financial	PM-KISAN's Rs. 2,000 every four months is insufficient to relieve financial	
Support	stress for small and marginal farmers, providing only Rs. 17 per day per	
	household.	
No Link to Land Size The cash transfer is uniform and not based on the size of the farm		
leading to possible discrepancies.		
Exclusion of Tenant	Tenant farmers and agricultural laborers, who are among the most	



Farmers & Agricultural	vulnerable, are left out of the scheme.	
Laborers		
Incomplete Tenancy	Many states (e.g., Jharkhand, Bihar, Gujarat, Tamil Nadu) lack digitized land	
Records & Lack of	records, making it difficult to identify beneficiaries.	
Digitization		
Not a Substitute for PM-KISAN should complement, not replace, reforms in Agri-marketing a		
Agricultural Reforms	agricultural investments to enhance productivity and sustainability.	
Doesn't Address Core	The scheme does not tackle key concerns like land productivity,	
Agricultural Issues	underemployment, income diversification, storage, and wastage, making it	
	insufficient as a standalone solution.	

Steps needed- Need to manage:

- **Production Risks:** Irrigation coverage expansion, cheaper inputs, Zero Budget Natural Farming, soil management.
- Weather & Disaster Related Risks, crop insurance under PM Fasal Bima Yojana needs to be farmer friendly. Farmers must also be appraised by the Agri-Meteorological Advisory Service.
- **Price Risks:** MSP awareness beyond rice and wheat, contract farming. Move towards livestock, fisheries and integrated farming.
- **Credit Risks:** More access to formal credit, financial cum digital literacy and Awareness generation in the required field.
- Market Risks: Promotion of e-NAM, exposure to commodities market, long term contracts on predetermined prices, etc.

Conclusion:

Policy Risks -

- Implement model APLM Act, reduce scope of Essential Commodities Act to situations of natural calamities. Encourage R&D and start-ups in the field of Agriculture as a Service (AaaS).
- Promote MSMEs to reduce underemployment in agriculture and migration.

O.7 Answer

APPROACH:

Introduction: Highlight the critical role of tropical rainforests in regulating Earth's climate and the alarming deforestation trends.

Body: Discuss conservation efforts, policy measures, sustainable practices, and global cooperation. Provide examples like the Amazon Fund and REDD+ initiatives.

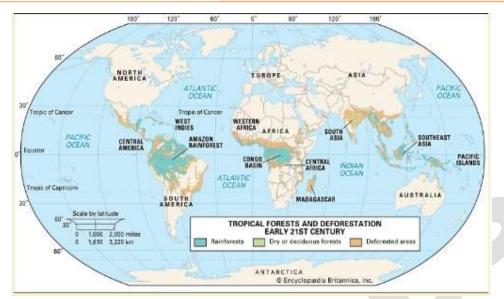
Conclusion: Emphasize the urgency of intensified actions and the need for global commitment to preserving rainforests.

Introduction:

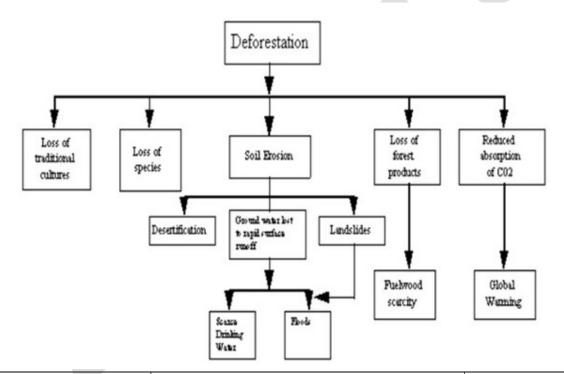
Rainforests are closed-canopy forests growing within 28 degrees north or south of the equator, characterized by high levels of rainfall (200 cm), and high species diversity. Such forests are in Asia, Australia, Africa, America, and Central America, Mexico and on many of the Pacific Islands. They play a major role in carbon sequestration and thus regulation of temperature.

The FAO's State of the World's Forests (SOFO) 2024 report, highlights the importance of innovation in the forest sector to address global challenges, including climate change, and emphasizes the need for technological, social, policy, institutional, and financial innovations.





Body: Causes of Deforestation:



Cause	Details	Examples	
Agricultural Expansion	Primary reason for deforestation, especially for subsistence-based agriculture and plantations.	Africa (Gulf of Guinea Coast, Congo Basin)	
		Indonesia and Malaysia (Plantation Agriculture)	
Developmental	Deforestation due to urbanization, infrastructure	Brazil: Balbina HEP	
Activities	expansion, hydroelectric projects, and mining.	submerged 24,000 km ² of	



		rainforest
Lapses in	Lack of enforcement of regulations leading to	80% of forest degradation in
Government Policies	forest degradation due to agriculture and	Indonesia and Brazil
	logging.	
Climate Change &	Increased frequency of forest fires due to climate	Amazon Rainforest (Brazil)
Forest Fires	change and El-Niño events.	Indonesia (1997 El-Niño event)

Stepping Up Efforts to Protect the World's Tropical Forests:

The international community and the state, along with communities, are trying to save the rainforest through various programs such as REDD and REDD-Plus (Focus areas of these programmes are sustainable management of the rainforest). <u>Various SDGs like SDG 2 (Food Security)</u>, <u>13 (Climate Action)</u>, <u>15 (Life on land)</u> are related to saving rainforests. Yet, there are many miles to go-

- Social Forestry: By giving ownership and management rights to the local population, the rainforest can be saved, as the forest provides a livelihood to the local populace. In Guatemala, the community-owned forest enterprise is managing 4.2 lakh Ha of forest successfully.
- **Use of technology**: It can provide real-time monitoring of rainforest and can help in the successful implementation of government policies.
- **Teaching about the importance of the environment** and how they can help to save rainforests.
- Restoring damaged ecosystem by planting trees on land where forests have been cut down.
- Encourage people to live in a way that does not hurt the environment.
- Establishing parks to protect rainforests and wildlife.
- Supporting companies that operate in a way that minimizes damage to the environment.

Conclusion:

The International Tropical Timber Organization (ITTO) under the UN, which promotes the sustainable management and conservation of tropical rainforests, is a pioneer in this regard, and it should make a consensus on sustainable use of its resource. Sustainable managing the rainforests and creating sustainable supply chains require a balancing act. The role of tropical rainforests is undisputed in mitigating the effect of global warming; there is a need to boost the mitigation strategy to save the tropical rainforests.

Q.8 Answer

APPROACH:

Introduction: Define social media's role in modern communication and its impact on national security. **Body:** Discuss how law enforcement agencies can utilize social media for intelligence gathering, crisis management, misinformation control, and public engagement. Provide relevant examples.

Conclusion: Highlight the importance of responsible usage and technological advancements in strengthening national security.

Introduction:

India's National Security landscape is threatened with various external challenges such as stressed and susceptible borders, terrorism as well as internal challenges such as left-wing extremism and separatist movements.

21st century technological advancements have been a double-edged sword for national security purposes, as on one hand technology has become the yardstick of defence prowess of the country, e.g. Nuclear Triad and on the other hand, it has become the softest target to destabilize any country, e.g. Communication Networks.

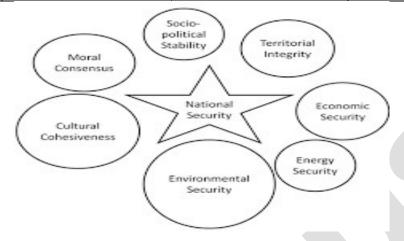




Body:

Aspect	Role of Technology in	Challenges Posed by	Use of Social Media for
	National Security	Technology	National Security
Threat Response	Helps counter evolving threats like ASAT missiles.	Terrorists using satellite phones and VoIP (e.g., Mumbai attack).	Identifying flashpoints of disturbances and gauging public mood.
Border Security	Faster and securer infrastructure, e.g., CIBMS.	Increased arms race (nuclear, space militarization, etc.).	Engaging citizens for secure communities (e.g., Twitter Samvad).
Surveillance	High-risk zone monitoring via SWATHI Radar, UAVs.	Use of social media for radicalization (e.g., ISIS activities).	Fact-checking fake news, rumors, and misinformation.
Critical	Systems like CMS	Cyberattacks on national	Preparing SOPs and
Infrastructure	securing communication	databases (India 2nd most	emergency communication.
Protection	networks.	attacked).	
Intelligence	Actionable, interoperable	Organized crime using	Operation Chakravyuh for
Gathering	intelligence via	sophisticated hacking	de-radicalization of youth.
	NATGRID.	methods.	
Military	Nano-tech in LCA Tejas	Risks of emerging arms	Building actionable
	making it lighter and	race and global	intelligence through public

Advancementsstronger.militarization.data analysis.



Conclusion:

For safeguarding and effectively utilizing social media and cyber space revising National Cyber Security Policy, Institutionalizing National Social Media Policy are the urgent steps to tackle distinct social media challenges. Also creating awareness, empowering agencies- technically, legally and financially, implementing National Security Strategy Doctrine effectively to capitalize upon upcoming technological advancements is the step forward.

Q.9 Answer

APPROACH:

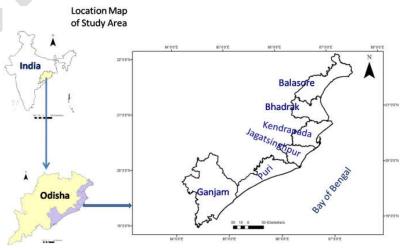
Introduction: Define Odisha's ecosystem services and land commons, emphasizing their economic importance in livelihoods, agriculture, and industry.

Body: Discuss key ecosystem services like fisheries, forestry, and water resources, their contribution to the economy, and the challenges such as deforestation, climate change, and overexploitation. Provide examples.

Conclusion: Emphasize the need for sustainable management policies to balance economic benefits with environmental conservation.

Introduction:

Odisha's ecosystem services and land commons, including forests, pastures, and uncultivated lands, contribute significantly to its economy, with an estimated annual value of ₹36,890 crore (\$5 billion). These resources provide crucial livelihood support, regulate climate, and maintain biodiversity. However, they face severe threats such as land degradation, overuse, and encroachments, necessitating sustainable management policies.





Body:

Economic Significance and Challenges

- Economic Contribution: The state's economy relies heavily on natural resources, with key services such as food, water, raw materials, and climate regulation valued at over ₹60,000 per hectare per annum. These resources also support agriculture and rural livelihoods.
- Challenges: Unsustainable exploitation, land degradation, biodiversity loss, soil erosion, and water shortages threaten these ecosystem services. Additionally, Odisha's vulnerability to climate change exacerbates these risks.

Need for Sustainable Management

- **Policy Integration:** Recognizing the economic value of ecosystem services in policymaking is crucial for their protection.
- **Legal and Institutional Reforms:** Strengthening land governance, preventing encroachments, and promoting sustainable land use practices.
- **Community-Based Management:** Engaging local communities in conservation efforts to ensure the long-term sustainability of land commons.

Conclusion:

Odisha's ecosystem services are vital for its economy and environmental stability. Addressing threats through sustainable policies, institutional reforms, and community participation is essential to safeguard these resources for future generations.

Q.10 Answer

APPROACH:

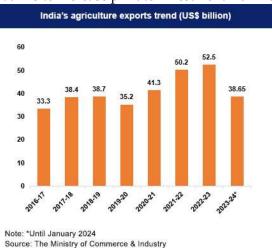
Introduction: Define the role of the private sector in agricultural growth and transformation, emphasizing its significance in modern agribusiness and value chains.

Body: Explain how private sector involvement enhances productivity, infrastructure, and market linkages. Discuss challenges such as regulatory constraints and smallholder inclusion. Provide examples of successful private interventions in agribusiness.

Conclusion: Highlight the need for policy support and public-private partnerships to ensure sustainable agricultural transformation.

Introduction:

To elevate farmers from their current distress, enhancing private investment in the agriculture sector is very crucial and the government aims to increase private investment from 13 % to around 30 %.





Body:

Sector Sector	Investment	Role
Public	Investment is falling as a large proportion goes into	Frames/provides legislation, policy
Sector	subsidies for fertilizers, irrigation, and other	guidelines, support pricing, and
	agricultural inputs rather than actual investment.	subsidies.
	Mostly from the government side.	Provides inputs like fertilizer and energy at concessional rates.
Private	Investment has declined due to excessive government	Ensures superior service delivery to
Sector	regulations and control over the sector.	the end consumer.
	Mostly from individual farmers; corporate sector	Maximizes service at an affordable
	investment occurs mostly after the harvest.	price.

Role of the Private Sector In



Sector	Private Sector Involvement	
Agriculture	Supports new technology adoption requiring high skill and capital-intensive methods	
	like Precision Agriculture, Polyhouse cropping, and self-propelled sprayers.	
Farming	Private sector engages in contract farming; e.g., PepsiCo's Frito Lay division collaborates	
	with agronomists and service providers to assist smallholder farmers in potato	
	production and direct procurement.	
Agri-food	Companies like Reliance Fresh directly partner with farmers for fresh fruits and	
Value Chain	vegetables, improving farmer livelihoods, enhancing produce quality, reducing wastage,	
	and minimizing intermediaries.	
Allied Activities	•	
Livestock	Companies like DeLaval provide dairy solutions to improve production, animal welfare,	



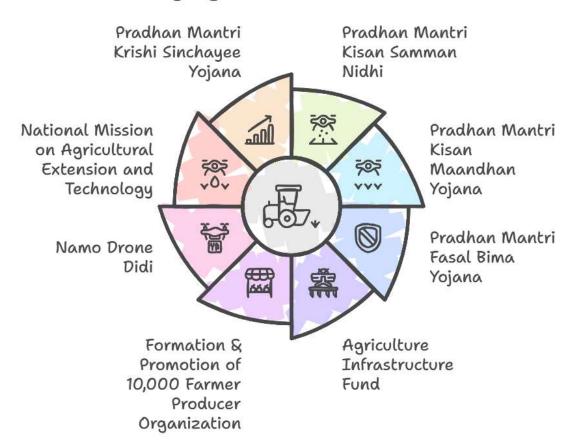
	and quality of life.
Fisheries	Innovations in cost-effective services; e.g., Signode India Ltd developed Modified Atmospheric Packaging for dry fish in Kerala, increasing shelf life and export potential.

Challenges for the Private Sector in Serving and Driving Agriculture

- Land lease Policy: Weak land rights led to tenure insecurity that ultimately results in reduced land productivity because of poor land management.
- Land Fragmentation: It has inhibited the ability of the farmers to invest in new technologies, making the private sector unviable for small farmers as the average farm size in India is 1.5 hectares (NITI Aayog report)
- Contract Farming: The fear of exploitation by the big corporate houses, which is shedding farmers' way from making a contract with them, like PepsiCo India Holdings sued farmers for illegally growing and selling a potato variety registered in the company's name.
- Agriculture markets are very much fragmented in India, with each farmer confined to a single mandi in many products in many states and making it impossible for the private sector to contact each farmer individually.

Way forward:

Key Agricultural Initiatives





- Land Leasing: Implementation of a model (agricultural) land leasing act proposed by the NITI Aayog to simplify the leasing of farmland to boost private sector morale.
- Contract farming: SFAC speedy implementation of the Model law on contract farming announced in the budget 2017-18, and encouraging the Small Farmers Agri-Business consortium would encourage private sector participation.
- Government initiative: Enacting a liberal APMC law, scaling up digital technologies, encouraging
 private players to set up mandis, warehouses, cold storage, and Mega food parks should be the
 priorities.

Conclusion:

NITI Aayog has indeed launched several initiatives and reports in 2025, including a "Fiscal Health Index 2025" and a policy report on "Expanding Quality Higher Education through States and State Public Universities," focusing on improving fiscal health and higher education quality.

Q.11 Answer

APPROACH:

Introduction: Define India's intelligence framework and its role in national security.

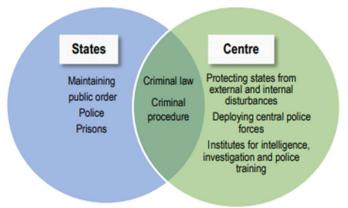
Body: Discuss challenges like outdated technology, lack of coordination, inadequate training, and insufficient integration with police modernization. Provide relevant examples.

Conclusion: Emphasize the need for a holistic reform approach, integrating intelligence and police modernization for enhanced security.

Introduction:

Intelligence reforms without the police reforms are pointless because the local policemen develop the strategic intelligence given by the central agencies which needs enough cognitive and analytical skill to process the intelligence. Thus there is a need for comprehensive and not piecemeal reforms.

Figure 1: Responsibilities of centre and states with regard to police

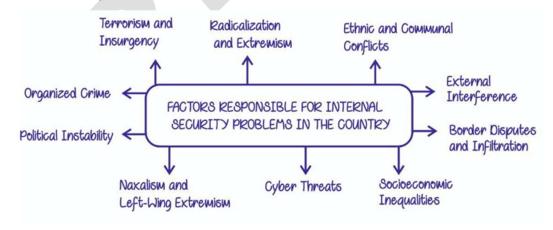


Body:

Category	Key Initiatives	
Police Modernization	- Establish open and separate direct recruitment mechanisms for intelligence agencies through UPSC.	
	- Outsource specialized needs of national security management rather than relying only on police personnel.	
	- Use the Modernization of Police Forces Scheme to address deficiencies in state police infrastructure.	
	- Improve forensic laboratories, equipment, training infrastructure,	

	communication systems, and police mobility.
Technological Up-gradation	- Enhance in-house technical research and development capabilities.
	- Upgrade offensive and defensive capabilities in cyber warfare.
	- Empower Indian Police with IT and Criminal Intelligence through NCRB.
	- Build a National Resource Centre for IT solutions for police organizations.
	- Upgrade crime analysis technology.
	- Provide IT and Fingerprint Science training for police capacity building.
Capacity Building of State Police Personnel	- Familiarize police personnel with electronic evidence gathering processes.
	- Ensure knowledge of rules and regulations for data access and intermediary liability.
	- Appoint a National Intelligence Director to improve interagency coordination and eliminate duplications.
	- Introduce legislation in Parliament to define the charters, functions, and duties of intelligence organizations.
	- Separate investigation duties from law-and-order responsibilities (e.g., NIA).

Deficiencies in Intelligence framework in India



Issue	Details
Inefficient	After the Kargil intrusion (1999), the Intelligence Bureau (IB) created a Multi-
Coordination	Agency Centre (MAC) that receives intelligence mainly from Central agencies.

	However, in 2011, state special branches contributed only 11% of inputs.
Lack of Dedicated	Intelligence agencies rely on police officers rather than language experts, scientists,
Intelligence Cadre	IT professionals, or cyber specialists, affecting efficiency.
No Unified	Agencies like NATGRID, IB, MAC, and CCTNS exist, but there is no single
Intelligence	authority to coordinate them, leading to slow responses during crises like the
Authority	26/11 attack.
Lack of Checks and	The intelligence system lacks oversight, and political interference (e.g., CBI
Balances	politicization) reduces efficiency.
No Legislative	Most intelligence agencies operate through executive orders without clear
Backing	oversight. For example, CBI and RAW report to the PMO, DRI to the Finance
	Ministry, and Military Intelligence to the Defense Ministry.

Conclusion:

Given the immense contemporary security challenges India is confronting, as it emerges as a global power, a paradigm shift is needed to modernize intelligence work in a holistic manner, which may require radical changes in the existing intelligence culture with short term, medium term and long term objectives clearly identified.

Q.12 Answer

APPROACH:

Introduction: Define the India Cooling Action Plan (ICAP) and its objectives in addressing cooling demands while reducing emissions.

Body: Explain how ICAP mitigates direct emissions through energy-efficient cooling technologies and indirect emissions via sustainable policies. Discuss its impact across sectors like residential, commercial, transport, and agriculture. Provide examples of initiatives under ICAP.

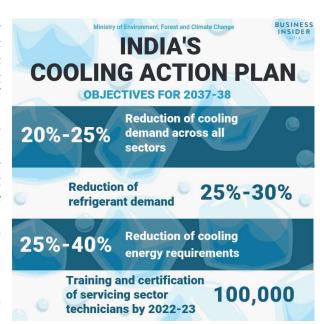
Conclusion: Highlight ICAP's significance in balancing economic growth with environmental sustainability and its role in meeting India's climate commitments.

Introduction:

India, as a part of the Montreal protocol and the landmark Kigali Amendment, is one of the first countries to devise a cooling action plan in an attempt to phase out ozone depleting substances. India Cooling Action Plan (ICAP), led by the Ministry of Environment, Forests and Climate Change (MOEFCC), provides a 20-year perspective (2017-18 to 2037-38) to address the cooling requirements across sectors and ways and means to provide access to sustainable cooling for all. With people around the world living through the fourth hottest year on record in 2018, the need for cooling solutions is more urgent than ever. India's cooling demand is projected to grow by 8 times in the next 20 years.

Targets and Framework of ICAP:

• Assessment of cooling requirements across



sectors in the next 20 years and the associated refrigerant demand and energy use.

- Map the technologies available to cater to the cooling requirement, including passive interventions, refrigerant-based technologies, and alternative technologies such as not-in-kind technologies.
- Suggest interventions in each sector for sustainable cooling and thermal comfort for all.
- Focus on skilling of RAC service technicians.
- Develop an R&D innovation ecosystem for indigenous development of alternative technologies.

Body:

ICAP's Role In Reducing Direct Emissions

<u>Direct emissions are due to the release of refrigerant. They can occur during normal operation or because of leaks from pipes and components:</u>

- Reduction of cooling demand across sectors by 20% to 25 % by year 2037-38.
- Reduction of refrigerant demand by 25% to 30% by year 2037-38.
- Reduction of cooling energy requirements by 25% to 40% by year 2037-38.

ICAP's Role in Reducing Indirect Emissions

Indirect emissions are due to energy consumption and contribute 2/3 of the total emissions:

- Promotion of passively-cooled building design with natural and mechanical ventilation.
- Adoption of adaptive thermal comfort standards to specify pre-setting of temperatures of air conditioning equipment for commercial built spaces.
- India will also seek to support the development and deployment of low-GWP refrigerant alternatives.

Socio-economic Benefits Accrued by ICAP:

- Thermal comfort for all provision for cooling for EWS and LIG housing.
- Skilled workforce for better livelihoods and environmental protection.
- Make in India domestic manufacturing of air-conditioning and related cooling equipment.
- Cooling is also linked to human health and productivity. Linkages of cooling with Sustainable Development Goals (SDGs) are well acknowledged.
- The cross-sectoral nature of cooling and its use in development of the economy makes provision for cooling an important developmental necessity.

ICAP and Impact of Cooling Different Sectors:

Sector	Planned Measures	Expected Impact
Household	Improving efficiency of ACs and fans through better servicing and adoption of adaptive thermal practices.	30% reduction in cooling energy requirements; 20% TR reduction by 2037-38.
Construction	Implementation of building energy codes, thermal comfort standards, eco-labeling of cooling products, and energy-efficient housing designs.	Reduced cooling load in buildings, increased energy efficiency.
Agriculture	Development of robust cold-chain infrastructure to reduce post-harvest losses.	Increased refrigeration use; potential rise in carbon footprint.
Transport AC	Encouraging public transport, hybrid, and electric vehicles to reduce dependency on air-conditioned passenger cars.	



Limitations of ICAP:

- The CAP does not take into consideration the needs of 90% of the Indian population and is skewedly focused on 10% of the population.
- The NCAP has not indicated the benchmark for thermal comfort that needs to guide energy efficiency measures for all users of active as well as passive cooling.
- Its actual intent seems to be "myopically" focused on the market for personal air conditioners, ignoring the fact that demand for cooling is driven by people and not by the sale of air conditioners.
- Implementation of the guidelines needs a framework that has not been drawn out.

Conclusion:

ICAP must be based on the fact that about 60 per cent of current space cooling energy consumption is by top 10 per cent of the population, this is only way ahead to give thermal comfort for all. India needs thermal comfort defined to guide interventions for energy efficiency in buildings and there is also a need to estimate cooling demand based on thermal comfort definition and not on sales of ACs. Implementation roadmap should be drawn out considering different sectors and their different requirements.

Q.13 Answer

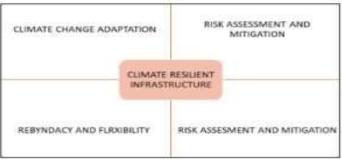
APPROACH:

Introduction: Define CDRI and its objectives in enhancing disaster-resilient infrastructure.

Body: Explain how CDRI aligns with India's commitment to the Sendai Framework through capacity building, risk assessment, technological collaboration, and policy support. Provide relevant examples. **Conclusion:** Highlight CDRI's role in strengthening India's disaster preparedness and promoting global resilience.

Introduction:

Economic losses from disasters that damage infrastructure can reach huge proportions. The **World Bank** estimates that annual disaster losses are already close to \$520 billion and those disasters push upto 24 million people in a year into poverty. So by ensuring that all new investments in infrastructure are made in a risk-sensitive way, a significant reduction in economic losses from disasters can be realised.



Body:

Disaster Resilient Infrastructure creates a Disaster Resilient World:

When infrastructure fails, disaster follows. So the countries need to look beyond immediate relief and rehabilitation and focus on "build back better" after a natural catastrophe besides reducing infrastructural losses, disaster-resilient infrastructure will also help achieve targets on reduction in mortality, number of affected people, and economic losses due to disasters.

For example, post-disaster damage analysis, after the 1995 Great Hanshin-Awaji Earthquake in Hyogo Prefecture, Japan, it was found that buildings constructed to the 1971 standard performed far better than those built to an earlier standard; and those of the 1981 standard performed best of all, with only a very small share suffering collapse. It demonstrated the effectiveness of Japan's seismic design standards and continuous improvement there of.



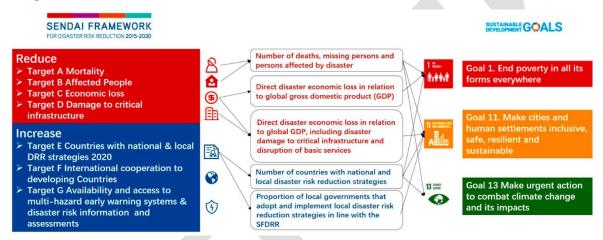
International agreements - reiterating benefits of investing in resilient infrastructure:

The Sendai Framework for Disaster Risk Reduction: It identifies investing in Disaster Risk Reduction (DRR) for resilience and building back better in reconstruction as priorities for action towards reducing disaster risk.

Sustainable Development Goals: Goal 9 recognises disaster-resilient infrastructure as a crucial driver of economic growth and development.

Sendai Framework for Disaster Risk Reduction (SFDRR) and Coalition for Disaster Resilient Infrastructure (CDRI)

The Sendai Framework for Disaster Risk Reduction (SFDRR) highlighted the role of improved disaster resilience, including that of infrastructure, as a cornerstone for sustainable development. While inaugurating the Asian Ministerial Conference on Disaster Risk Reduction (AMCDRR, New Delhi), the Prime Minister of India announced that India would work with partner countries and key stakeholders in launching a "Coalition for Disaster Resilient Infrastructure (CDRI)".



To garner inputs from the wider base of global stakeholders, the Government of India (GOI) in collaboration with the United Nations Office for Disaster Risk Reduction (UNISDR) hosted the International Workshop on Disaster Resilient Infrastructure in New Delhi, India from 15-16 January 2018.

Aspect	India's Commitment & Challenges	Polo of CDPI & Clobal Learning				
Aspect	India's Commitment & Challenges	Role of CDRI & Global Learning				
Understanding	India needs to enhance early warning Learning from global best prac					
Disaster Risk	systems and risk reduction efforts.	to improve mitigation.				
	9	1 0				
Disaster Risk	Strengthening policies and institutions for	CDRI supports policy frameworks				
Governance	better disaster management.	for disaster resilience.				
	3					
Investment in Risk	Balancing economic growth with disaster-	CDRI provides funding and				
Reduction	resilient infrastructure.	technology for resilient				
		infrastructure.				
		iiiiasti ucture.				
Early Warning &	India needs better early warning systems	Japan's expertise can help in early				
Preparedness	and post-disaster recovery strategies.	detection and rehabilitation.				
Trepurcuitess	and post disuster recovery strategies.	detection and renabilitation.				
Building Back Better	Challenges in protecting property and	Learning from countries with strong				
Dunaming Dack Detter						
	infrastructure from extreme weather.	disaster mitigation policies.				



International	India can benefit from partnerships for	CDRI facilitates global cooperation in
Collaboration	disaster risk reduction.	disaster resilience.

India's initiative for **Coalition for Disaster Resilient Infrastructure** will help in the development of appropriate infrastructure to face natural calamities, for both the least developed and developing countries. CDRI will act as a synergy between Disaster Risk Reduction, Sustainability Goals and Climate Accord providing for sustainable and inclusive growth.

Conclusion:

Japan's unique path to improved building safety can be emulated by Indian policymakers to build its infrastructure disaster resilient, by initiating steps like:

- Legal framework, for uniform national building standards (under the Building Standard law).
- Building Code- Recognized as a minimum standard.
- Quality Assurance Mechanism.
- Role of local governments in building quality assurance, for carrying out building confirmation, structural review, inspection, and so.

Q.14 Answer

APPROACH:

Introduction: Define the Paris Call and its objectives in strengthening cybersecurity.

Body: Explain its key features, including multi-stakeholder collaboration, cyber resilience, and protection of critical infrastructure. Discuss India's cybersecurity measures like policy frameworks, CERT-In, and data protection initiatives.

Conclusion: Emphasize the importance of international cooperation and national efforts in tackling cybersecurity threats.

Introduction:

Recently, the UNESCO Internet Governance Forum (IGF) meeting convened in Paris, "The Paris Call for Trust and Security in Cyberspace" was commenced, aiming at developing common principles for securing cyberspace.

The goals mentioned in the Paris Call and the principles adopted, represent a consensus of priorities between states, corporations and civil society. Paris call gives a fresh momentum to the issue of creating globally acceptable cybersecurity norms by mounting support from multiple stakeholders. Important points are as follows.

Body:

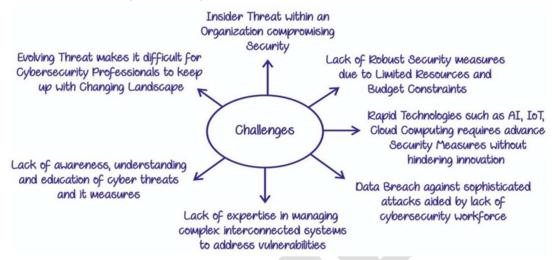
Category	Key Points
Inclusive	Recognize the responsibilities of the private sector in improving trust, security, and
Regulatory Process	stability in cyberspace.
	Adopt a strong multi-stakeholder approach to enhance collaboration among the government, private sector, and civil society to combat cyber criminality.
International Law	Encourage better coordination in regulating cyberspace and the use of ICT in line
	with the principles of the U.N. Charter and international humanitarian law.
	Focus on maintaining international peace and security.
State Sovereignty	Promote the exclusive role of sovereign states in hostile cyber activities.
	Advocate for measures preventing interference with elections.

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TEST 25	:: ANSWERS

Safeguard individuals and critical infrastructure from harm.
Ensure protection against any invasion.

Challenges in the domain of cybersecurity:



- Ransomware: It spreads a virus that latches onto customer and business information that can only be removed if one meets the cybercriminal's egregious demands. Ransomware attacks are one of the areas where cybercrime is growing rapidly.
- Rapidly growing digital footprint: Use of Internet services is growing rapidly, but users don't have much knowledge of threats and protection systems, even professional people become victims of cyber bullying, phishing, online bank frauds, etc.
- Cryptocurrency: Cryptocurrencies in major economies are unregulated, Ransomware attacks, Hawala transactions, Terror funding, Money laundering, etc., are possible through payment via cryptocurrencies.
- Data piracy and commercial use of user data: For better targeted advertisements with the help of data mining, MNCs are selling user data. It poses a serious threat to cybersecurity and privacy of individuals.
- Cyber warfare: Modern warfare is changing, with internet attacks economies can be crippled along with critical infrastructures, along with this misleading information warfare is spreading.

Steps taken by the government to tackle challenges in the domain of cybersecurity:

- India's stance has gradually shifted to a multi-stakeholderism from a multilateralism approach.
- Requirement of data localization (storing of data within the country) and server management is being advocated.
- National Cyber Security Policy, 2013: The Policy is aimed at building a secure and resilient cyberspace for citizens, businesses and the Government.
- Computer Emergency Response Team (CERT-in) launched 'Cyber Swachhta Kendra' (Botnet Cleaning and Malware Analysis Centre) a new desktop and mobile security solution.
- Development of Public Private Partnerships is an important strategy under the National Cyber Security Policy 2013. For ex., antivirus company Quick Heal is providing a free bot removal tool.



Sectoral and state CERTs: CCERTs on power and finance sectors have been launched by the Indian government. State CERTs are also on the way.

Conclusion:

Looking forward to becoming a secure cyber ecosystem, India has joined hands with several developed countries like the United States, Singapore, Japan, etc. These agreements will help India to deal with the challenge of sophisticated cyber threats. Encouraging cybersecurity in the country, the government of India has offered a fund of 5 crores to companies that work for the research and revolution of cybersecurity.

Q.15 Answer

APPROACH:

Introduction: Define AFSPA and its objectives in ensuring national security and maintaining public order.

Body: Analyze its effectiveness in addressing security challenges, concerns over human rights violations, judicial scrutiny, and the need for reforms or alternatives. Provide relevant examples.

Conclusion: Evaluate whether AFSPA remains relevant or requires replacement with a more balanced legal framework ensuring both security and human rights.

Introduction:

AFSPA gives armed forces power to maintain public order in "disturbed areas". But over the years, there have been allegations of army excesses from residents of Manipur and Jammu and Kashmir. Supreme Court (July 2016), based on a PIL by the Extra-judicial Execution Victim Families Association, Manipur, held that excessive force cannot be used on people even in insurgency-hit areas while hearing a petition on extra-judicial killing.



Body:

Arguments in Support of AFSPA	Arguments in Favor of Repeal of AFSPA
Safeguards from legal harassment for soldiers.	Failed to protect human rights : Critics argue that AFSPA leads to human rights violations.
Operational requirement in disturbed areas.	Section 4 : Allows armed forces to shoot to kill or destroy property on mere suspicion.



Repeal may demoralize armed forces, and	Sanction for excessive use of force: Criticized for
militants may motivate locals to file lawsuits	enabling soldiers to act with impunity.
against the army.	
Necessary to maintain law and order, otherwise,	Violation of Human Rights & Article 21 (Right to
situations may spiral out of control.	Life) of the Indian Constitution.
Success in reducing militancy in conflict-prone	Section 6: Prohibits prosecution without the sanction
regions.	of the central government, leading to lack of
	accountability.

Failed to protect our soldiers

Supreme Court has ruled that armed personnel would face criminal prosecution if found using excessive force even in areas where AFSPA is in force. Important observations:

- Indefinite deployment of armed forces in the name of restoring normalcy under AFSPA "would mock at our democratic process", apart from symbolizing a failure of the civil administration and the armed forces.
- There is no concept of absolute immunity from trial by a criminal court.
- These observations of the Supreme Court completely dilute any protection offered under the AFSPA.
 - 1. Soldiers can be dragged to criminal courts.
 - 2. Today, numerous decades-old cases are being opened, and more and more retired officers and men are being called for investigations.

Conclusion:

We must, therefore, ponder whether the AFSPA is currently serving any useful purpose. In areas where AFSPA is in force, the population is completely against it. On the other hand, the fact that hundreds of officers and men have moved the Supreme Court shows that they are not fully confident that the AFSPA can actually protect them from legal harassment. A new legislation that strengthens both respect for human rights as well as protection to our soldiers is thus required.

Q.16 Answer

APPROACH:

Introduction: Define wetlands and their ecological significance.

Body: Identify major threats—urbanization, pollution, encroachment, climate change. Discuss national efforts (Wetlands (Conservation and Management) Rules, Ramsar sites) and international initiatives (Ramsar Convention).

Conclusion: Suggest policy reforms, stricter enforcement, and community participation for sustainable wetland conservation.

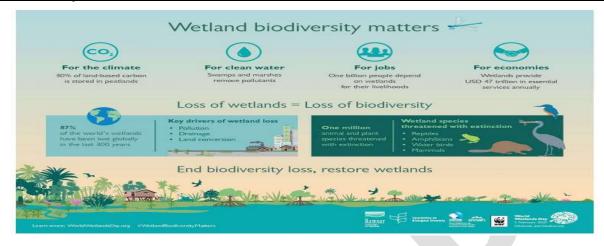
Introduction:

Wetlands	are	areas	with	standing	or	flowing	water	(Marshes,	lakes,	bogs,	and
swamps), eit	ther p	ermane	nt or sea	isonal.							
	-	Biodive	rsity res	ervoirs (sup	port	birds, fish,	and plan	t life)			
Ecological	F	- Water conservation (recharge groundwater, control floods)									
Importance	ŀ	- Climate change mitigation (carbon sinks)									
	- 1	Support	fisheri	es and local	econ	omies					
Ramsar	Т	he Ram s	sar Con	vention is a	n int	ernational t	reaty sig	ned on Febr u	1ary 2, 19	71 in Ra	msar,



Convention

Iran, dedicated to the **conservation and sustainable use of wetlands** globally. This day is now celebrated annually **as World Wetlands Day**.



Body:

Major Threats to Wetlands in India

Wetlands in India face several threats that endanger their ecological balance and sustainability. The primary threats include:

- Encroachment and Urbanization: Rapid urban expansion and infrastructural development lead to the loss of wetland areas.
- **Pollution**: Industrial discharge, agricultural runoff, and untreated sewage severely degrade water quality.
- Climate Change: Rising temperatures and erratic rainfall patterns affect wetland hydrology and biodiversity.
- **Over-extraction of Resources**: Excessive fishing, groundwater extraction, and deforestation around wetlands disrupt ecological stability.
- Invasive Species: Introduction of non-native species disrupts the natural biodiversity of wetlands.
- Agricultural Expansion: Conversion of wetlands into agricultural lands reduces their ability to act as water regulators.

Measures for Protection and Conservation

To address these threats, various national and international initiatives have been undertaken:

National Level Measures

- National Wetland Conservation Programme (NWCP) (1986): This initiative aimed to identify and conserve significant wetlands across the country.
- National Plan for Conservation of Aquatic Ecosystems (NPCA) (2015): It merged the NWCP and National Lake Conservation Plan to ensure a holistic approach to wetland protection.
- **Identification of Over 2,200 Wetlands for Conservation**: The Ministry of Environment, Forest and Climate Change has recognized critical wetlands requiring protection.
- **State-Specific Conservation Efforts**: States like Gujarat, Andhra Pradesh, Uttar Pradesh, and West Bengal have undertaken specific measures to conserve their extensive wetland areas.



• Legal Frameworks: The Wetlands (Conservation and Management) Rules, 2017, regulate activities in wetlands and promote their sustainable use.

International Level Measures

- Ramsar Convention on Wetlands (1971): An international treaty for the conservation and sustainable use of wetlands.
- Ramsar Site Designation: India is home to 89 Ramsar sites, with Tamil Nadu hosting the most (20 sites) followed by Uttar Pradesh (10 sites).
 - o The 2023-24 bird census by the Punjab government revealed a significant decline in migratory birds across the province's wetlands.
- Global Conservation Partnerships: Organizations such as the International Union for Conservation of Nature (IUCN) and the World-Wide Fund for Nature (WWF) support India's wetland conservation efforts.
- **Migratory Bird Protection**: Initiatives such as the Central Asian Flyway and East Asian-Australasian Flyway ensure the conservation of migratory species dependent on Indian wetlands.

Conclusion

Wetlands play a crucial role in maintaining ecological balance, supporting biodiversity, and sustaining livelihoods. However, they are under severe threat due to human activities and climate change. India has taken significant steps at both national and international levels to conserve these vital ecosystems. Strengthening policy frameworks, community participation, and global cooperation will be essential in ensuring the long-term sustainability of wetlands in India.

Q.17 Answer

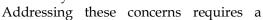
APPROACH:

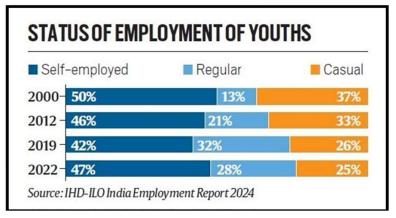
Introduction: Define unemployment and its impact on youth.

Body: Analyze causes—skill gap, automation, jobless growth, pandemic effects. Discuss Odisha's initiatives like "Skilled in Odisha," MSME promotion, and startup policies. Provide data-driven insights. **Conclusion:** Recommend policy reforms, education-industry alignment, and investment in emerging sectors for sustainable employment.

Introduction:

The India Employment Report 2024, jointly published by the Institute for Human Development (IHD) and the International Labour Organisation (ILO), presents critical insights into the Indian labour market. While it highlights some positive trends, such as improvements in job quality and a transition from agriculture to non-farm employment, it also underscores persistent challenges, particularly rising unemployment among educated youth.





nuanced approach, including state-specific initiatives. This essay examines the reasons behind increasing unemployment among Indian youth and evaluates the effectiveness of Odisha's policies in mitigating this issue.

Body:

Causes	Explanation
Skills Mismatch and Education Disparities	There is a gap between the skills acquired by graduates and the demands of industries, leading to difficulty in finding suitable employment.
Structural Dependence on Agriculture	Despite a shift towards non-farm employment, agriculture still employs nearly half of India's workforce, limiting opportunities in industrial sectors.
High Youth Unemployment and NEET Population	In 2022, 28% of youth were neither in employment, education, nor training (NEET), with female youth being more affected.
Informality and Job Insecurity	Over 90% of jobs in India are informal, resulting in job insecurity, low wages, and lack of social protections.
Gender Disparities	Women's workforce participation remains low due to social norms, lack of skill training, and prevalence of low-paying informal jobs.

Role of Odisha in Tackling Youth Unemployment

Odisha's recent employment trends, as outlined in the Periodic Labour Force Survey (PLFS) 2023-24, reflect both progress and challenges in addressing youth unemployment. The state's initiatives have led to a decline in overall youth unemployment, though urban joblessness remains a concern.

- **Decline in Youth Unemployment**: Odisha's youth unemployment rate has fallen from 13.8% in 2022-23 to 11.1% in 2023-24. In rural areas, the rate dropped significantly from 12.7% to 9.3%.
- Labour Force Participation Rate (LFPR) and Worker Population Ratio (WPR): Odisha's LFPR increased from 63% to 67.1% in rural areas and from 51.5% to 53.2% in urban areas. The state's WPR stands at 62.9%, higher than several other states like Kerala, Karnataka, West Bengal, and Telangana.
- Challenges in Urban Employment: While rural unemployment decreased, urban unemployment rose slightly from 21.8% to 22.9%, indicating the need for targeted urban employment policies.
- Sectoral Dependence on Agriculture: More than 48.5% of Odisha's workforce remains engaged in agriculture. While this sustains employment levels, it highlights the need for diversification into industrial and service sectors.

Policy Recommendations:

- Enhancing Employment-Intensive Growth: Encouraging labour-based manufacturing and expanding employment opportunities in services and agriculture can create more jobs for young people.
- **Bridging the Skills Gap**: Odisha can focus on skill development programs aligned with industry demands to reduce the education-employment mismatch.
- **Formalizing Employment**: Strengthening labour laws and social security measures can help transition workers from informal to formal employment.
- **Targeted Urban Employment Policies**: Addressing urban unemployment requires investment in infrastructure, MSMEs, and the gig economy to generate sustainable jobs.
- **Promoting Women's Employment**: Special policies focusing on women's workforce participation, skill-building, and access to financial resources can enhance gender inclusion in employment.



Conclusion:

The India Employment Report 2024 provides a comprehensive view of both progress and challenges in India's labour market. Despite positive trends, youth unemployment remains a pressing issue due to skill mismatches, informality, and structural dependence on agriculture.

Odisha's targeted policies have yielded positive results in reducing rural unemployment, yet urban joblessness persists as a concern. A combination of skill development, employment-intensive growth, and policy reforms can help India, and Odisha in particular, tackle youth unemployment effectively and ensure inclusive and sustainable economic growth

Q.18 Answer

APPROACH:

Introduction: Define space debris and its impact on satellite operations and space sustainability. **Body:** Discuss rising debris concerns, risks to space assets, and global mitigation efforts. Highlight ISRO's PSLV-C58/XPoSat mission, POEM-3's role, and debris reduction strategies. **Conclusion:** Emphasize ISRO's contribution to sustainable space exploration and the need for global collaboration on debris management.

Introduction:

With the rapid expansion of satellite deployments and space missions, the issue of space debris has become a pressing global concern. Space debris consists of defunct satellites, spent rocket stages, and fragments from collisions or disintegrations, posing significant risks to operational satellites and spacecraft. As the number of satellites in Low Earth Orbit (LEO) continues to grow, the chances of collisions and the creation of additional debris increase, necessitating proactive measures for mitigation.

Body:

ISRO's Innovative Approach to Space Debris Mitigation

The Indian Space Research Organisation (ISRO) has been at the forefront of addressing space debris concerns through its recent **PSLV-C58/XPoSat mission**. This mission incorporated groundbreaking strategies to minimize debris generation while ensuring effective space operations.

	generation while ensuring enective space operations.
Key Features of PSLV-	Details
C58/XPoSat Mission	Y .
,	
PSLV Orbital	The fourth stage of the PSLV was repurposed into POEM-3, transforming
Experimental Module-3	it into an experimental orbital station. This allowed for additional
1 -	1
(POEM-3)	scientific research and technology demonstrations, maximizing the utility
	of spent rocket stages.
De-orbiting Strategy	After deploying all satellites, the fourth stage was deliberately lowered
0 63	from 650 km to 350 km. The reduced altitude increased atmospheric drag,
	1
	ensuring a faster re-entry and burn-up, preventing long-term debris
	accumulation.
Passivation of the Stage	ISRO expelled all remaining fuel from the stage to eliminate explosion
	risks. This crucial step prevented fragmentation, which is a primary cause
	of debris multiplication.
·	of debtis munipheadon.
Benefits of ISRO's Zero	Details
	Details
Debris Approach	
Minimal Debris	By utilizing POEM 2 and passivating the fourth stage before controlled
	By utilizing POEM-3 and passivating the fourth stage before controlled
Generation	de-orbiting, ISRO ensured near-zero debris in Earth's orbit.
Reduced Risk to Space	Removing defunct rocket stages minimizes collision risks, protecting
reduced Risk to Space	removing definite rocket stages imminizes comploit risks, protecting



Assets	valuable satellites and space infrastructure.
Environmental Responsibility	The spent stage re-entered Earth's atmosphere, burning up completely without leaving harmful fragments in orbit.

POEM-3: Advancements in Sustainable Space Exploration

ISRO's **POEM-3** served as an innovative and cost-effective orbital platform for scientific experiments and technology demonstrations. Developed by the **Vikram Sarabhai Space Centre (VSSC)**, POEM-3 leveraged the fourth stage of PSLV as a space lab, demonstrating India's commitment to sustainable space missions.

Global Significance of ISRO's Efforts

ISRO's successful deployment and disposal of POEM-3 align with global efforts to promote responsible space exploration. The mission demonstrated India's capability to manage space debris efficiently and contribute to international best practices in space sustainability.

Addressing the Growing Challenge:

- **Mitigating Risks of Space Debris:** By incorporating controlled de-orbiting and passivation, ISRO is leading by example in debris reduction.
- **Supporting International Guidelines:** ISRO's efforts align with the Inter-Agency Space Debris Coordination Committee (IADC) and UN-endorsed debris mitigation protocols.
- **Advancing Technological Innovation:** Through POEM-3 and similar missions, ISRO is pioneering reusable and sustainable space technology.

Conclusion

The PSLV-C58/XPoSat mission represents a landmark achievement in space debris mitigation, reinforcing ISRO's commitment to sustainable space exploration. By developing innovative strategies like POEM-3, ISRO has set a precedent for responsible space mission planning, aligning with global efforts to achieve a **zero debris target**. As space activities continue to grow, such proactive measures are crucial in ensuring a safer and more sustainable orbital environment for future generations.