



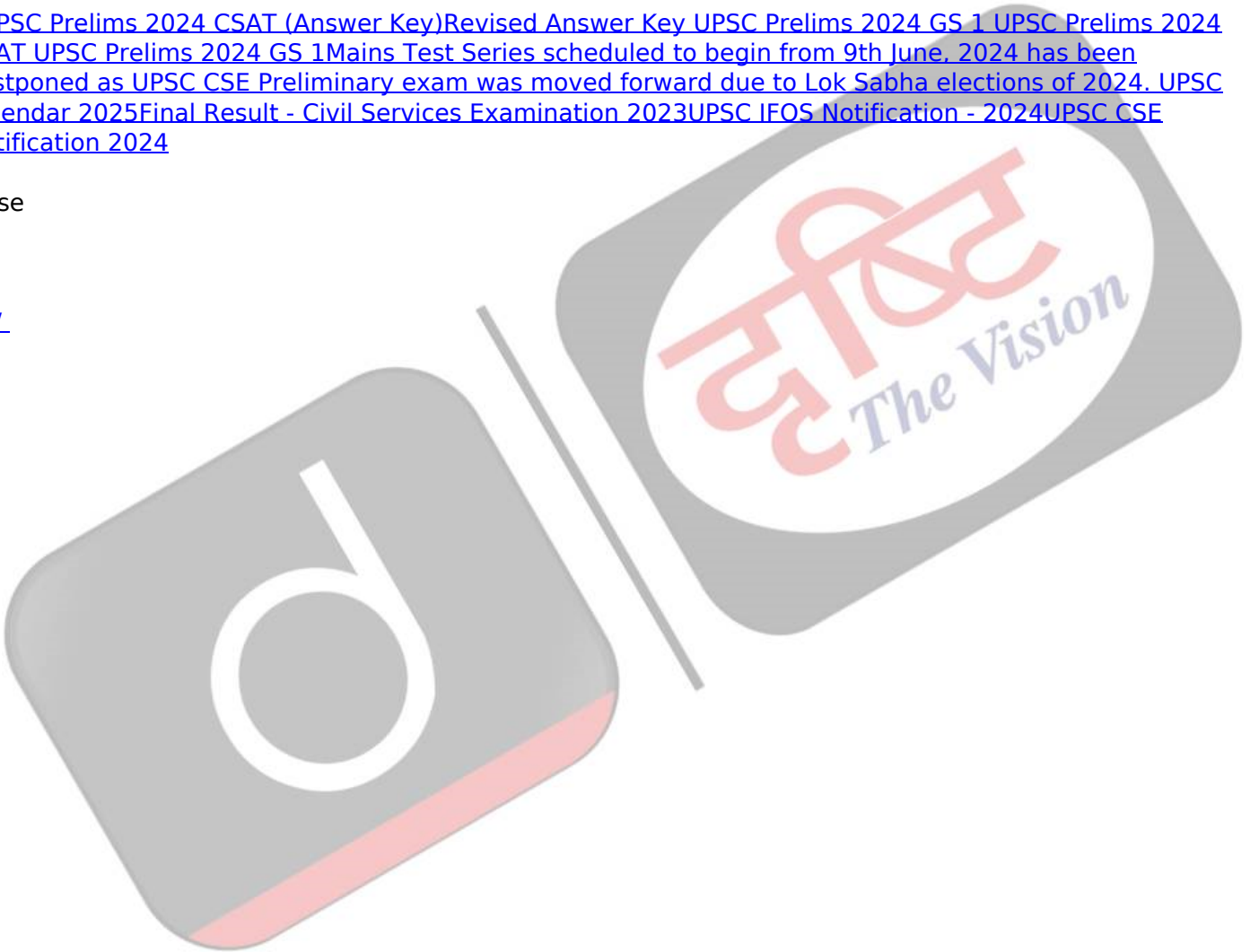
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close

//





- [Home](#)
- [Blogs](#)
- [Classroom Programme](#)
- [Interview Guidance](#)
- [Online Programme](#)
- [Drishti Store](#)
- [DLP](#)
- 

Language: [EN](#)

[Search](#)

[RSS](#)

[Cart](#)

[Classroom](#)

Menu

- [About us](#)
  - [General Introduction](#)
  - [Drishti - The Vision Foundation](#)
  - [Drishti Publications](#)
  - [Drishti Media](#)
  - [Managing Director](#)
  - [Infrastructure](#)
- [Prelims](#)
  - [About Civil Services](#)
  - [Syllabus & Strategy](#)
    - [UPSC Prelims Syllabus](#)
    - [GS Prelims Strategy](#)
  - [Prelims Analysis](#)
  - [Previous Years Papers](#)
    - [GS Paper-I \(Year Wise\)](#)
    - [GS Paper-I \(Subject Wise\)](#)
  - [CSAT](#)
    - [CSAT Strategy](#)
    - [CSAT MCQs](#)
    - [Previous Years Papers](#)
  - [Prelims Special](#)
    - [PT Sprint](#)
      - [2024](#)
      - [2023](#)
      - [2022](#)
    - [Sambhav](#)
      - [2024](#)
      - [2023](#)
    - [60 Steps To Prelims](#)
    - [Prelims Refresher Programme 2020](#)
  - [UPSC CSE Results](#)
- [Practice Quiz](#)
  - [Path To Prelims](#)
  - [Current Affairs](#)
  - [Daily Editorial Based Quiz](#)
  - [State PCS Quiz](#)
  - [Yojana / Kurukshetra](#)
  - [Down To Earth](#)
  - [CSAT](#)
  - [Weekly CA Revision MCQs](#)
  - [Monthly Editorial Quiz Consolidation](#)
  - [CA Quiz Consolidation](#)
  - [Previous Year Papers](#)
  - [NCERT BOOKS](#)
  - [Economic Survey](#)
- [Mains & Interview](#)
  - [Optional Subjects](#)
  - [Mains Special](#)
    - [Sambhav](#)
      - [2024](#)
      - [2023](#)
    - [Mains Marathon](#)
      - [2023](#)
      - [2022](#)
    - [Be MAINS Ready](#)



- [2021](#)
  - [2020](#)
  - [2019](#)
- [Mains Syllabus & Strategy](#)
  - [Mains GS Syllabus](#)
  - [Mains GS Strategy](#)
- [Mains Answer Writing Practice](#)
- [Essay](#)
  - [Essay Strategy](#)
  - [Fodder For Essay](#)
  - [Model Essays](#)
  - [Previous Years Papers](#)
- [Ethics](#)
  - [Ethics Strategy](#)
  - [Ethics Case Studies](#)
  - [Engage in Ethics](#)
  - [Ethics Previous Years Q&As](#)
- [Mains Previous Years](#)
  - [Papers By Years](#)
  - [Papers By Subject](#)
- [Mains Solved Papers](#)
  - [Papers By Years](#)
  - [Papers By Subject](#)
- [Indian Forest Services](#)
- [Personality Test](#)
  - [Interview Strategy](#)
  - [Interview Guidance Programme](#)
- [UPSC CSE Results](#)
- [Current Affairs](#)
  - [Daily News & Editorial](#)
  - [Daily CA MCOs](#)
  - [Weekly Revision MCOs](#)
  - [Sansad TV Discussions](#)
  - [Monthly CA Consolidation](#)
  - [Monthly Editorial Consolidation](#)
  - [Monthly MCQ Consolidation](#)
  - [Monthly Editorial Quiz Consolidation](#)
- [Drishti Specials](#)
  - [Inspirational Icons](#)
  - [Manthan](#)
  - [Sambhav](#)
    - [2024](#)
    - [2023](#)
  - [To The Point](#)
  - [Infographics and Maps](#)
  - [Important Institutions](#)
  - [Learning Through Maps](#)
  - [PRS Capsule](#)
  - [Summary Of Reports](#)
  - [Gist Of Economic Survey](#)
  - [Study Material](#)
    - [NCERT Books](#)
    - [NIOS Study Material](#)
    - [IGNOU Study Material](#)
- [Test Series](#)
  - [UPSC](#)
    - [Prelims Test Series](#)
    - [Mains Test Series](#)
  - [BPSC](#)



- [Prelims Test Series](#)
  - [Mains Test Series](#)
- [UPPCS](#)
  - [Prelims Test Series](#)
  - [Mains Test Series](#)
- [RAS/RTS](#)
  - [Prelims Test Series](#)
  - [Mains Test Series](#)
- [MPPSC](#)
  - [Prelims Test Series](#)
  - [Mains Test Series](#)
- [HPSC](#)
  - [Prelims Test Series](#)
  - [Mains Test Series](#)
- [Other Competitive Exams](#)
  - [CAPF](#)
  - [EPFO](#)
- [State PCS](#)
  - [Bihar](#)
  - [Chhattisgarh](#)
  - [Rajasthan](#)
  - [Uttar Pradesh](#)
  - [Haryana](#)
  - [Jharkhand](#)
  - [Uttarakhand](#)
  - [Madhya Pradesh](#)
- [Videos](#)
  - [Important Institutions](#)
  - [Daily Editorial Analysis](#)
  - [YouTube PDF Downloads](#)
  - [Mindmap For UPSC](#)
  - [Daily Current Affairs](#)
    - [Science & Tech](#)
    - [International Relations](#)
    - [Indian Culture & Historical Events](#)
    - [Polity & Nation](#)
    - [Economic Development](#)
    - [Ecology & Environment](#)
  - [Weekly Practice Questions](#)
  - [Important Government Schemes](#)
  - [Strategy By Toppers](#)
  - [Ethics - Definition & Concepts](#)
  - [Mastering Mains Answer Writing](#)
  - [Places in News](#)
  - [UPSC Mock Interview](#)
  - [JFoS Mock Interview](#)
  - [PCS Mock Interview](#)
    - [UPPSC](#)
    - [Bpsc](#)
  - [Interview Insights](#)
  - [Prelims 2019](#)
  - [Study Plan](#)
  - [Product Promos](#)
- [Quick Links](#)
  - [Drishiti Store](#)



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- [Blog](#)

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- [Topper's Interview](#)

## Prelims

- [About Civil Services](#)
- [Syllabus & Strategy](#)
  - [UPSC Prelims Syllabus](#)
  - [GS Prelims Strategy](#)
- [Prelims Analysis](#)
- [Previous Years Papers](#)
  - [GS Paper-I \(Year Wise\)](#)
  - [GS Paper-I \(Subject Wise\)](#)
- [CSAT](#)
  - [CSAT Strategy](#)
  - [CSAT MCQs](#)
  - [Previous Years Papers](#)
- [Practice Quiz](#)
- [Weekly Revision MCQs](#)
- [60 Steps To Prelims](#)
- [Prelims Refresher Programme 2020](#)



## Mains & Interview

- [Mains Syllabus & Strategy](#)
  - [Mains GS Syllabus](#)
  - [Mains GS Strategy](#)
- [Mains Answer Writing Practice](#)
- [Essay](#)
  - [Essay Strategy](#)
  - [Fodder For Essay](#)
  - [Model Essays](#)
  - [Drishti Essay Competition](#)
- [Ethics](#)
  - [Ethics Strategy](#)
  - [Ethics Case Studies](#)
  - [Ethics Discussion](#)
  - [Ethics Previous Years Q&As](#)

- [Mains Previous Years](#)
  - [Papers By Years](#)
  - [Papers By Subject](#)
- [Mains Solved Papers](#)
  - [Papers By Years](#)
  - [Papers By Subject](#)
- [Be MAINS Ready](#)
- [Awake Mains Examination 2020](#)
- [Personality Test](#)
  - [Interview Strategy](#)
  - [Interview Guidance Programme](#)

## Current Affairs

- [Daily News & Editorial](#)
- [Daily CA MCOs](#)
- [Weekly Revision MCOs](#)
- [Sansad TV Discussions](#)
- [Monthly CA Consolidation](#)
- [Monthly Editorial Consolidation](#)
- [Monthly MCO Consolidation](#)

## Drishti Specials

- [To The Point](#)
- [Mind Map](#)
- [Important Institutions](#)
- [Learning Through Maps](#)
- [PRS Capsule](#)
- [Summary Of Reports](#)
- [Gist Of Economic Survey](#)

## Study Material

- [NCERT Books](#)
- [NIOS Study Material](#)
- [IGNOU Study Material](#)
- [Yojana & Kurukshetra](#)

## State PCS

- [Bihar](#)
- [Chhatisgarh](#)



- [Rajasthan](#)
- [Uttar Pradesh](#)
- [Haryana](#)
- [Jharkhand](#)
- [Uttarakhand](#)
- [Madhya Pradesh](#)

## Test Series

- [UPSC Prelims Test Series](#)
- [UPSC Mains Test Series](#)
- [UPPCS Prelims Test Series](#)
- [UPPCS Mains Test Series](#)
- [BPSC Prelims Test Series](#)
- [RAS/RTS Prelims Test Series](#)

## Videos

- [Important Institutions](#)
- [Daily Editorial Analysis](#)
- [YouTube PDF Downloads](#)
- [Strategy By Toppers](#)
- [Ethics - Definition & Concepts](#)
- [Mastering Mains Answer Writing](#)
- [Places in News](#)
- [UPSC Mock Interview](#)
- [IFoS Mock Interview](#)
- [PCS Mock Interview](#)
- [Interview Insights](#)
- [Important Government Schemes](#)
- [Prelims 2019](#)
- [Study Plan](#)
- [Product Promos](#)

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- [Home](#)
- Be Mains Ready

Show Menu

[All GS Paper 1](#) [GS Paper 2](#) [GS Paper 3](#) [GS Paper 4](#) [Essay](#) [Revision Tests](#)

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**Q.** Sugarcane and sugar production plays a significant role in the economy of India, trade and livelihood. Enumerate the challenges faced by the sugarcane industry and suggest measures to mitigate them. (150 Words)

## Approach

- Begin with a brief introduction
- Discuss the importance of the sugar industry in India
- Analyse the problems of the sugar industry in India
- Also, recommend measures to mitigate the crisis

## Answer

India is the largest consumer of sugar in the world. The sugar industry is amongst the most important agro-based industries in the country that impact the livelihood of about 5 crore farmers and their family members and 5 lakh workers directly employed with the sugar mills. There are more than 700 installed sugar factories in the country with a crushing capacity of about 340 lakh MT of sugar and an annual turnover of about Rs 80,000 crore.

### Importance of Sugar Industry

**Multiple linkages:** Sugar is a labour-intensive industry, up the entire value-chain from cane-growing to sugar and alcohol production.

**Source of employment:** Sugar industry in India is the source of livelihood for 50 million farmers and their families. It provides direct employment to not only over 5 lakh skilled labourers but also semi-skilled labourers in sugar mills and allied industries across the nation.

**Biofuel:** Back in June 2018, the Ministry of Petroleum and Natural Gas published its “National Policy on Biofuels -2018” in which it proposed a 20% target blending rate for ethanol by 2030. Ethanol blended fuel can help in reducing crude oil imports.

### Problems faced by Sugar Industry in India

- **Uncertain Production Output:** Sugarcane has to compete with several other foods and cash crops like cotton, oilseeds etc. This affects the supply of sugarcane to the mills and

the production of sugar also varies from year to year causing fluctuations in prices leading to losses in times of excess production due to low prices.

- **High cost of production:** High cost of sugarcane, inefficient technology, uneconomic process of production and heavy excise duty results in high cost of manufacturing. The production cost of sugar in India is one of the highest in the world.
- **Low Yield of Sugarcane:** Yield of sugarcane in India per hectare is extremely low as compared to some of the major sugarcane producing countries of the world. For example, India's yield is only 64.5 tonnes/hectare as compared to 90 tonnes in Java and 121 tonnes in Hawaii.
- **Government policy and control:** The government has been controlling sugar prices through various policy interventions like export duty, imposition of a stock limit on sugar mills, change in meteorology rule etc., to balance supply-demand mismatch. But these controls have resulted in unremunerative sugar prices, increasing arrears for sugar mills and dues to be paid to sugarcane farmers.

### Measures to mitigate these problems

- To prevent the problem of arrears for sugarcane farmers and to keep the sugar industry in sound financial health, sugarcane prices must be linked to sugar prices. The Revenue Sharing Formula (RSF) needs to be introduced, with a Price Stabilisation Fund to protect farmers from receiving prices below the FRP (Fair and Remunerative Price).
- Keeping in view the urgent need for conservation of water- shifting some areas under sugarcane cultivation to less water-intensive crops, by providing a suitable incentive to farmers.
- Due to stagnation and/or declining sugar prices, the liquidity position of the mills has remained a major cause for concern, prompting the Government to come out with various liquidity support measures from time to time. A long term solution requires a fund of a reasonable size to provide liquidity support to the mills if such situations emerge.
- There should also be efforts towards freeing both cane and sugar prices from the shackles of government control and allowing free market forces to dictate the demand-supply equation for sugarcane and its end-products.

The health of the sugar cane industry has a direct impact on India's rural economy, growth and employment. Thus, there is a need to fully adopt the recommendations of the Rangarajan committee, especially linking FRP for sugarcane to realisations from sugar and by-products.

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$(document).ready(function(){ $('#accordion button').click(function(){ // $('#accordion button').css("display","block").next().slideUp(500); $(this).text(function(i, text){ return text === "Show Answer" ? "Hide Answer" : "Show Answer"; }); // $(this).css("display","none").next().slideToggle(500); $(this).next().slideToggle(); }); }); $('#sendtoprogress').click(function(e){ var article=$('#article').val(); var title = $('#articletitle').val(); var url = "https://www.drishtiias.com/be-mains-ready-daily-answer-writing-practice-question/papers/2021/sugarcane-sugar-production-role-economy-india-trade-livelihood-enumerate-challenges-sugarcane-industry-suggest-mitigate/about-us/about-us/general-introduction/print"; $.ajax({ type: "POST", url: "https://www.drishtiias.com/articles/progress", data: 'article='+article+'&type=2&articletitle='+title+'&url='+encodeURIComponent(url), success: function(data){ if(data=='success'){ if($('.progresslist').length){ $('.progresslist').prepend(''+title+'  
'); } } } else { $('.message').hide(); $( '

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' ).insertAfter( ".content .prog" ); } $('#articlemsg').html('Article has been added in your progress section'); $('#fixbtn.progress').toggleClass('open'); } else if(data=='already') { $('#articlemsg').html('This article is already exist in your progress section. '); } else if(data=='login') { $('#articlemsg').html('Please login to send this article into progress. '); } else { $('#articlemsg').html('Oops! something went wrong, Please try again'); } }, error: function(error,errorType,errorStatus){ alert(errorType); } }); $('#sendtobookmark').click(function(e){ var article=$('#article').val(); var title = $('#articletitle').val(); var url = "https://www.drishtiias.com/be-mains-ready-daily-answer-writing-practice-question/papers/2021/sugarcane-sugar-production-role-economy-india-trade-livelihood-enumerate-challenges-sugarcane-industry-suggest-mitigate/about-us/about-us/general-introduction/print"; $.ajax({ type: "POST", url: "https://www.drishtiias.com//articles/progress", data: 'article='+article+'&type=1&articletitle='+title+'&url='+encodeURIComponent(url), success: function(data){ if(data=='success'){ if($('.bookmarklist').length){ $('.bookmarklist').prepend(''+title+'  
'); } } } else { $('.message').hide(); $( '

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' ).insertAfter( ".content .bookm" ); } $('#articlemsg').html('Article has been added in your bookmark section'); $('#fixbtn.bookmark').toggleClass('open'); } else if(data=='already') { $('#articlemsg').html('This article is already exist in your bookmark section. '); } else if(data=='login') { $('#sendtobookmark').addClass('popup'); //$('#articlemsg').html('Please login to send this article into progress. '); } else { $('#articlemsg').html('Oops! something went wrong, Please try again'); } }, error: function(error,errorType,errorStatus){ alert(errorType); } }); $(document).ready(function(){ //$('#video-slide').slick(); $('#video-slide').slick({ autoplay: true, arrows: false, dots: false, autoplaySpeed:7000 }); }); function showMessage(){ $(".ui-state-default").on("mouseenter", function() { var dayprefix=""; if(parseInt($(this).text()) = 1) { clearInterval(fadeInInterval); } else { opacity += 0.1; form.style.opacity = opacity; } }, 20); //

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Adjust the interval as needed for the desired speed // Add click event listener to document to close form when clicking outside document.addEventListener("click", closeFormOnClickOutside); } function closeForm() { var form = document.getElementById("myForm"); var opacity = 1; // Gradually decrease opacity to 0 var fadeOutInterval = setInterval(function () { if (opacity



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screen_width_resize_before){ //Zoom out if(current_location > screen_middle){ box.style.left = (screen_width_resize_after-xx) + 'px'; } else { box.style.left = x + 'px'; } } else { //Zoom in if(current_location > screen_middle){ box.style.left = (screen_width_resize_after-xx) + 'px'; } else { box.style.left = x + 'px'; } } var screen_width_resize_before = screen_width_resize_after; }); document.addEventListener('scroll',(event) => { var box_top=parseInt(box.style.top, 10); var window_height=parseInt(window.innerHeight, 10); if((box_top >= window_height) || (box_top < screen_middle)){ box.style.left = (screen_width-xx) + 'px'; } else { box.style.left = x + 'px'; } box.style.top = (window_height*0.5)+'px'; } }, { passive: true } ); $('float-plus').draggable(); $('float-plus').css("position", "fixed"); $('float-plus').css("z-index", "999"); $('float-plus').click(function(){ show_social_float_icons(); }); var box = document.getElementById('float-plus'); $('float-plus').mousedown(function(){ const body = document.body; box.style.transition = "all 0s ease 0s"; body.style.overflow = "hidden"; body.style.pointerEvents = "auto"; }); $('float-plus').mouseup(function(){ const body = document.body; body.style.overflow = "auto"; body.style.pointerEvents = "auto"; box.style.transition = "all 1s ease 0s"; var screen_width = window.innerWidth; var screen_width = parseInt(screen_width, 10) var current_location = box.style.left; var current_location = parseInt(current_location, 10) var screen_middle = (screen_width/2); var xx = (screen_width*0.04); var x = (screen_width*0.009); if(current_location > screen_middle){ box.style.left = (screen_width-xx) + 'px'; } else { box.style.left = x + 'px'; } }); // For MOBILE TOUCH - DRAGGABLE box.addEventListener('touchstart', function(e) { box.style.transition = "all 0s ease 0s"; }); box.addEventListener('touchmove', function(e) { e.preventDefault(); box.style.transform = "translate(-50%, -50%)"; var touchLocation = e.targetTouches[0]; box.style.left = (touchLocation.pageX-window.scrollX) + 'px'; box.style.top = (touchLocation.pageY-window.scrollY) + 'px'; }); box.addEventListener('touchend', function(e) { box.style.transition = "all 1s ease 0s"; var screen_width = screen.width; var screen_width = parseInt(screen_width, 10) var current_location = box.style.left; var current_location = parseInt(current_location, 10) var screen_middle = (screen_width/2); var xx = (screen_width*0.05); var x = (screen_width*0.05); if(current_location > screen_middle){ box.style.left = (screen_width-xx) + 'px'; } else { box.style.left = x + 'px'; } }); function remove_social_float_icons() { $(".float-fb").animate({ top: "-=8%", }, 500 ); setTimeout(function(){ $(".float-fb" ).hide("slow"); },500); $(".float-tw").animate({ top: "-=16%", }, 500 ); setTimeout(function(){ $(".float-tw" ).hide("slow"); },500); $(".float-rs").animate({ top: "-=24%", }, 500 ); setTimeout(function(){ $(".float-rs" ).hide("slow"); },500); $(".float-ig").animate({ top: "-=32%", }, 500 ); setTimeout(function(){ $(".float-ig" ).hide("slow"); },500); $(".float-pn").animate({ top: "-=40%", }, 500 ); setTimeout(function(){ $(".float-pn" ).hide("slow"); },500); $(".float-wp").animate({ top: "-=48%", }, 500 ); setTimeout(function(){ $(".float-wp" ).hide("slow"); },500); var width = (window.innerWidth > 0) ? window.innerWidth : screen.width; if(width >= 700){ $(".float-tg").animate({ top: "-=56%", }, 500 ); setTimeout(function(){ $(".float-tg" ).hide("slow"); },500); } setTimeout(function(){ $(".float-cross" ).hide("slow"); },500); setTimeout(function(){ $(".float-plus" ).show("slow"); },500); sessionStorage.setItem("remove_social_icons", "1"); } function show_social_float_icons(){ setTimeout(function(){ $(".float-plus" ).hide("slow"); },10); setTimeout(function(){ $(".float-fb" ).show("slow"); },10); setTimeout(function(){ $(".float-tw" ).show("slow"); },10); setTimeout(function(){ $(".float-rs" ).show("slow"); },10); setTimeout(function(){ $(".float-ig" ).show("slow"); },10); setTimeout(function(){ $(".float-pn" ).show("slow"); },10); setTimeout(function(){ $(".float-wp" ).show("slow"); },10); var width = (window.innerWidth > 0) ?
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window.innerWidth : screen.width; if(width >= 700){ setTimeout(function(){ $( ".float-tg" ).show("slow");
},10); } setTimeout(function(){ $( ".float-cross" ).show("slow"); },10); $(".float-fb").animate({ top:
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}, 700 ); $(".float-ig").animate({ top: "+=32%", }, 800 ); $(".float-pn").animate({ top: "+=40%", }, 900 );
$(".float-wp").animate({ top: "+=48%", }, 1000 ); if(width >= 700){ $(".float-tg").animate({ top:
"+=56%", }, 1000 ); } sessionStorage.setItem("remove_social_icons", "0"); }
$(document).ready(function(){ var value = sessionStorage.getItem("remove_social_icons"); if(value ==
'1'){ remove_social_float_icons(); } }); // function to close the popup function closePopup() { var modal =
document.getElementById("myModal"); modal.style.display = "none"; } // function to open the popup
function openPopup() { var modal = document.getElementById("myModal"); modal.style.display =
"block"; } // Added the code - If user click on anywhere outside the popup $('body').click(function(e) {
$('#myModal').hide(); }); $('#popclose').on('click',function(e){ $('#myModal').css('display','none'); }); //
automatically open the popup on page load window.onload = openPopup; $(document).ready(function(){
if(screen.width { button.addEventListener('click', btnEvent => { // console.log(button.id); $.ajax({
method: "POST", url: "https://www.drishtiias.com/search/", data:{ 'id': button.id, 'search': search },
headers: { 'X-CSRF-TOKEN': $(''[name = "_csrfToken"]').val() }, success: function(result){
$('body').html(result); }, error: function(error){ console.log(error) } }) }) } $(document).ready(function(){
//alert(getCookie('isLogin')); if(getCookie('isLogin')==1) { $('#myAccountDiv').css('display','inline-block');
$('#loginLink').css('display','none'); $('#registerLink').css('display','none');
$('#makeNoteLoginLink').css('display','inline-block'); $('#makeNoteLink').css('display','none');
$('#makeNoteOptionDiv').css('display','inline-block'); } else { $('#myAccountDiv').css('display','none');
$('#loginLink').css('display','inline-block'); $('#registerLink').css('display','inline-block');
$('#makeNoteLoginLink').css('display','none'); $('#makeNoteLink').css('display','inline-block');
$('#makeNoteOptionDiv').css('display','none'); } }); function getCookie(name) { var match =
document.cookie.match(RegExp("(?:^|;)\s*" + name + "=(?:[^\s]*)")); return match ? match[1] : null; } var
regex = /^[^([a-zA-Z0-9_+~])+\@((([a-zA-Z0-9-])+\.)+([a-zA-Z0-9]{2,4})+)$/; var phonex = /^[0-9 ]+$/;
$('#newsletterfrm').submit(function(e){ var msg=true; var txtname=$('#txtname').val(); var
txtemail=$('#txtemail').val(); $('#nmsg').html(""); //$('#input-error').remove(); if(txtname.trim()=='')
$('#txtname').addClass('input-error'); msg=false; }else{ $('#txtname').removeClass('input-error'); }
if(txtemail.trim()==''){ $('#txtemail').addClass('input-error'); msg=false; }else
if(!regex.test(txtemail)){ $('#txtemail').addClass('input-error'); msg=false; }else{
$('#txtemail').removeClass('input-error'); } if(msg){ var form=$('#newsletterfrm').serialize(); $.ajax({
type: "POST", url: "https://www.drishtiias.com/pages/newsletterfrm", data: form, success: function(data){
if(data=='already'){ $('#nmsg').html('Email address already in use'); }else if(data=='add'){
$('#nmsg').html('Thank you for subscribing to our newsletter. '); $('#txtname').val("");
$('#txtemail').val(""); }else{ $('#nmsg').html('Oops! something went wrong, Please try again'); }
//$('#nloader').hide(); }, error: function(error,errortype,errorstatus){ alert(errortype);
//$('#nloader').hide(); } }); } e.preventDefault(); }); $('#smsalertfrm').submit(function(e){ var msg=true;
var txtmobile=$('#txtmobile').val(); $('#nmmsg').html(""); //$('#input-error').remove();
if(txtmobile.trim()==''){ $('#txtmobile').addClass('input-error'); msg=false; }else
if(txtmobile.trim().length!=10){ $('#txtmobile').addClass('input-error'); msg=false; }else
if(!phonex.test(txtmobile)){ $('#txtmobile').addClass('input-error'); msg=false; }else{
$('#txtmobile').removeClass('input-error'); } if(msg){ var form=$('#smsalertfrm').serialize();
//$('#nmloader').show(); $.ajax({ type: "POST", url: "https://www.drishtiias.com/pages/smsalertfrm", data:
form, success: function(data){ if(data=='already'){ $('#nmmsg').html('Phone number already in use');
}else if(data=='add'){ $('#nmmsg').html('Thank you for subscribing to our SMS Alerts. ');
$('#txtmobile').val(""); }else{ $('#nmmsg').html('Oops! something went wrong, Please try again'); }
//$('#nmloader').hide(); }, error: function(error,errortype,errorstatus){ alert(errortype);
//$('#nmloader').hide(); } }); } e.preventDefault(); }); $('#subscriptionfrm').submit(function(e){ var
msg=true; var txtname=$('#name').val(); var txtemail=$('#emailaddress').val(); var
txtmobile=$('#phone').val(); $('#contactmsg').html(""); //$('#input-error').remove();
if(txtname.trim()==''){ $('#name').addClass('input-error'); msg=false; }else{
$('#name').removeClass('input-error'); } if(txtemail.trim()==''){ $('#emailaddress').addClass('input-
error'); msg=false; }else if(!regex.test(txtemail)){ $('#emailaddress').addClass('input-error'); msg=false;
}else{ $('#emailaddress').removeClass('input-error'); } if(txtmobile.trim()==''){
$('#phone').addClass('input-error'); msg=false; }else if(txtmobile.trim().length!=10){
$('#phone').addClass('input-error'); msg=false; }else if(!phonex.test(txtmobile)){
$('#phone').addClass('input-error'); msg=false; }else{ $('#phone').removeClass('input-error'); }
if($('#dailyupdates').prop("checked") == false && $('#examnewsletter').prop("checked") == false &&
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$('#fullnewsletter').prop("checked") == false && $('#sms').prop("checked") == false) {
$('#contactmsg').css('display','block'); $('#contactmsg').addClass('error'); $('#contactmsg').html('No
option selected, please select at least one option. '); msg=false; } if(msg){ $('#loader').css('display','block');
var form=$('#subscriptionfrm').serialize(); $.ajax({ type: "POST", url:
"https://www.drishtiias.com/subscription", data: form, success: function(data){
$('#loader').css('display','none'); if(data=='success'){ $('#contactmsg').css('display','block');
$('#contactmsg').removeClass('error'); $('#contactmsg').html('Thank you for subscribing to our
subscription. You will hear from us soon. '); $('#name').val(""); $('#emailaddress').val(""); $('#phone').val("");
}else{ $('#contactmsg').css('display','block'); $('#contactmsg').addClass('error');
$('#contactmsg').html('Oops! something went wrong, Please try again'); } }, error:
function(error,errortype,errorstatus){ $('#loader').css('display','none'); alert(errortype);
//$('#nloader').hide(); } }); } e.preventDefault(); }); $('#testseriesfrm').submit(function(e){ var msg=true;
var txtnname=$('#firstname').val(); var txtnemail=$('#emailaddress').val(); var
txtnmobile=$('#phonenumber').val(); $('#contactmsg').html(""); //$('#input-error').remove();
if(txtnname.trim()=="){ $('#firstname').addClass('input-error'); msg=false; }else{
$('#firstname').removeClass('input-error'); } if(txtnemail.trim()=="){ $('#emailaddress').addClass('input-
error'); msg=false; }else if(!regex.test(txtnemail)){ $('#emailaddress').addClass('input-error'); msg=false;
}else{ $('#emailaddress').removeClass('input-error'); } if(txtnmobile.trim()=="){
$('#phonenumber').addClass('input-error'); msg=false; }else if(txtnmobile.trim().length!=10){
$('#phonenumber').addClass('input-error'); msg=false; }else if(!phonex.test(txtnmobile)){
$('#phonenumber').addClass('input-error'); msg=false; }else{ $('#phonenumber').removeClass('input-
error'); } if(msg){ $('#loader').css('display','block'); var form=$('#testseriesfrm').serialize(); $.ajax({ type:
"POST", url: "https://www.drishtiias.com/test-series-registration", data: form, success: function(data){
$('#loader').css('display','none'); //alert(data); if(data=='success'){ $('#contactmsg').css('display','block');
$('#contactmsg').removeClass('error'); $('#contactmsg').html('Thank you for choosing our test series. You
will get an email and message soon. '); $('#firstname').val(""); $('#lastname').val("");
$('#emailaddress').val(""); $('#phonenumber').val(""); }else{ $('#contactmsg').css('display','block');
$('#contactmsg').addClass('error'); $('#contactmsg').html(data); } }, error:
function(error,errortype,errorstatus){ $('#loader').css('display','none'); alert(errortype);
//$('#nloader').hide(); } }); } e.preventDefault(); }); $('#allnotes').click(function(){
$('#fixbtn.notes').removeClass('open'); $('#fixbtn.mynotes').toggleClass('open'); });
$('#mynotes,.notelist').on('click','.readmore',function(){ var noteid=$(this).attr('data-noteid');
$('#note_id').val(noteid); $.ajax({ type: "POST", url: "https://www.drishtiias.com/articles/setnote", data:
'note_id='+noteid, success: function(data){ if(data){ tinymce.get("mynote").setContent(data);
$('#mynotemsg').html(""); $('#fixbtn.notes').toggleClass('open'); }else{ alert('Oops! something went
wrong, Please try again'); } }, error: function(error,errortype,errorstatus){ alert(errortype); } }); });
$('#notelink').click(function(){ $.ajax({ type: "POST", url: "https://www.drishtiias.com/articles/removenote",
success: function(data){ if(data=='removed'){ $('#note_id').val(""); tinymce.get("mynote").setContent("");
$('#mynotemsg').html(""); $('#fixbtn.notes').toggleClass('open'); $('#fixbtn.mynotes').removeClass('open');
}else{ alert('Oops! something went wrong, Please try again'); } }, error:
function(error,errortype,errorstatus){ alert(errortype); } }); });
$('#mynotes,.notelist').on('click','.removenote',function(e){ if(confirm('Are you sure want to remove
note?')) { $('#loader').css('display','block'); var noteid=$(this).attr('data-noteid'); $.ajax({ type: "POST", url:
"https://www.drishtiias.com/articles/deletenote", data: 'note_id='+noteid, success: function(data){
$('#loader').css('display','none'); if(data=='removed'){ $('#note-list #'+noteid+' ,.notelist
#+noteid).css('display','none'); }else{ alert('Oops! something went wrong, Please try again'); } }, error:
function(error,errortype,errorstatus){ $('#loader').css('display','none'); alert(errortype); } }); }
e.preventDefault(); }); $('#commentfile').change(function(){ $("#file-name").text(this.files[0].name); });
$(document).ready(function(){ $('#list-toggle').click(function(){ $('#list-category').toggleClass('active');
$(this).toggleClass('active'); $('#value').text(function(i, text){ return text === "Hide Menu" ? "Show Menu"
: "Hide Menu"; }); }); $('#aside button.close').click(function(){ $('#list-category').toggleClass('active'); $('#list-
toggle').toggleClass('active'); }); $('#fixbtn .btn').click(function(){ $('#fixbtn
.btn').not(this).parents('.fixbtn').removeClass('open'); $(this).parents('.fixbtn').toggleClass('open'); });
$('#fixbtn a.close').click(function(){ $(this).parents('.fixbtn').removeClass('open'); }); $('#note-
btn').click(function(){ $('#fixbtn.notes').toggleClass('open'); }); $('#viewmore a').click(function(){
$('#hide').slideToggle('active'); $(this).text(function(i, text){ return text === "View More" ? "View Less" :
"View More"; }); }); }); $('#learning-program .subheading').click(function(){ $(this).next().slideToggle();
$(this).toggleClass('open'); }); $(document).ready(function(){ $('#a.register-btn').colorbox(); });
$('#interview-slider').slick({ autoplay: true, arrows: false, dots: true });
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$('#bookSession').on('click',function(e){ $.ajax({ type: "POST", data: { 'course':  
$('#bookSession').data('course') }, url: "https://www.drishtias.com/book-online-session", success:  
function(json){ var obj = JSON.parse(json); if (obj.status==200) { alert(obj.message); } else {  
alert(obj.message); window.location.reload(); } }, error: function(error,errorType,errorStatus){  
alert(errorType); } }); e.preventDefault(); }); $(".popup").colorbox({iframe: true, innerWidth: 790,  
innerHeight: 530}); if(screen.width = 500) { $("#scroll-top").addClass("show"); } else { $("#scroll-  
top").removeClass("show"); } }); function showarchive(year,month,day=null){ // alert('be-mains-ready-  
daily-answer-writing-practice-question'); return; var  
url='https://www.drishtias.com/archives/'+year+'-'+month+'-'+day; location=url;  
//alert(url+'/archives/'+year+'-'+month+'-'+day); }
```

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