



[Karol Bagh | IAS GS Foundation Course | 29 May, 6 PM](#) [Call Us](#)

This just in:

[Mains Marathon 2024](#)[UPSC IFoS Prelims Result 2024](#)[UPSC CSE Prelims Result 2024](#)[UPSC Prelims 2024 CSAT \(Answer Key\)](#)[Revised Answer Key UPSC Prelims 2024 GS 1](#)[UPSC Prelims 2024 CSAT](#)[UPSC Prelims 2024 GS 1](#)[Mains Test Series scheduled to begin from 9th June, 2024 has been postponed as UPSC CSE Preliminary exam was moved forward due to Lok Sabha elections of 2024.](#)[UPSC Calendar 2025](#)[Final Result - Civil Services Examination 2023](#)[UPSC IFOS Notification - 2024](#)[UPSC CSE Notification 2024](#)

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](#)
 - [Mains Marathon](#)
 - [2024](#)
 - [2023](#)
 - [2022](#)
 - [Sambhav](#)
 - [2024](#)
 - [2023](#)



- [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 MCQs](#)
 - [Weekly Revision MCQs](#)
 - [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](#)
 - [IFoS Mock Interview](#)
 - [PCS Mock Interview](#)
 - [UPPSC](#)
 - [BPSC](#)
 - [Interview Insights](#)
 - [Prelims 2019](#)
 - [Study Plan](#)
 - [Product Promos](#)
- [Quick Links](#)
 - [Drishti Store](#)



close

- [Blog](#)

Achievers Corner

- [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 MCQs](#)
- [Weekly Revision MCQs](#)
- [Sansad TV Discussions](#)
- [Monthly CA Consolidation](#)
- [Monthly Editorial Consolidation](#)
- [Monthly MCQ Consolidation](#)

Drishti Specials

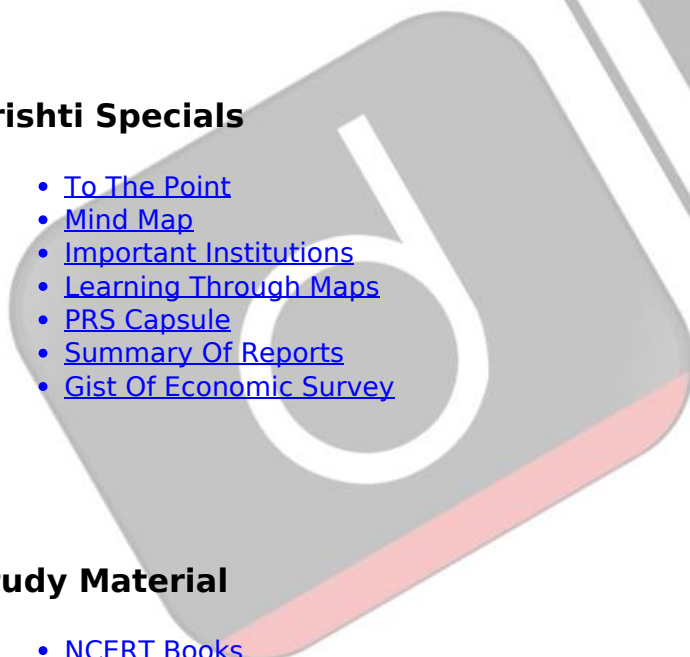
- [To The Point](#)
- [Mind Map](#)
- [Important Institutions](#)
- [Learning Through Maps](#)
- [PRS Capsule](#)
- [Summary Of Reports](#)
- [Gist Of Economic Survey](#)

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](#)

[Drishti Store](#)



Mains Marathon

- [Home](#)
- Mains Marathon

Show Menu

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

- 28 Jul 2022 [GS Paper 3 Science & Technology](#)

Day 18: Discuss the need for promoting Semiconductor Industry in India. How will the National Semiconductor Mission help in achieving this? (250 words)

- Describe Semiconductor and its benefits.
- Discuss the need for promoting semiconductor industry in India.
- Explain the National Semiconductor Mission of India and how this will ensure production of semiconductors in India.
- Conclude by suggesting a way to develop semiconductor industry.

Answer

Semiconductors are materials which have **a conductivity between conductors and insulators**. They can be **pure elements, silicon or germanium or compounds; gallium, arsenide or cadmium selenide**. They are the basic building blocks that serve as the heart and brain of all modern electronics and information and communications technology products. India currently imports all semiconductor chips and the market are estimated to touch \$100 billion by 2025 from \$24 billion now.

Need for promoting Semiconductor Industry in India

- Semiconductor chips are the lifeblood of the modern information age. They enable electronic products to compute and control actions that simplify our lives. They are **used in critical infrastructures such as communication, power transmission, etc.**, that have implications for **national security**.
- Development of the semiconductor and display ecosystem will have a multiplier effect across different sectors of the economy with deeper integration to the global value chain. There are not many countries in the world that manufacture these chips. The industry is dominated by the United States of America, Taiwan, South Korea, Japan, and the Netherland
- **India currently imports all chips**, and the market is estimated to **touch \$100 billion by 2025 from \$24 billion now**. India's own consumption of semiconductors is expected to cross USD 80 billion by 2026 and to USD 110 billion by 2030.

Indian Semiconductor Mission (ISM)

The ISM was launched in 2021 with a total financial outlay of Rs76,000 crore under the aegis of the Ministry of Electronics and IT (MeitY). The programme aims to provide financial support to

companies investing in semiconductors, display manufacturing and design ecosystems. ISM will serve as the nodal agency for efficient, coherent and smooth implementation of the schemes.

Components of ISM which will led to increase in the production of Semiconductors in India:

- **Scheme for setting up of Semiconductor Fabs in India:** It provides **fiscal support to eligible applicants for setting up Semiconductor Fabs** which is aimed at attracting large investments for setting up semiconductor wafer fabrication facilities in the country.
- **Scheme for setting up of Display Fabs in India:** It provides fiscal support to eligible applicants for setting up of Display Fabs which is aimed at attracting large investments for setting up TFT LCD / AMOLED based display fabrication facilities in the country.
- **Scheme for setting up of Compound Semiconductors / Silicon Photonics / Sensors Fab and Semiconductor Assembly, Testing, Marking and Packaging (ATMP) / OSAT facilities in India:** The Scheme provides **a fiscal support of 30% of the Capital Expenditure to the eligible applicants** for setting up of Compound Semiconductors / Silicon Photonics (SiPh) / Sensors (including MEMS) Fab and Semiconductor ATMP / OSAT (Outsourced Semiconductor Assembly and Test) facilities in India.
- **Design Linked Incentive (DLI) Scheme:** It offers **financial incentives**, design infrastructure support across various stages of development and deployment of semiconductor design for Integrated Circuits (ICs), Chipsets, System on Chips (SoCs), Systems & IP Cores and semiconductor linked design.

The Schemes provided under Indian Semiconductor Mission will promote production of Semiconductors in India

Challenges Faced by India

- **High Investments Required:** This sector involves huge capital investments, high risk, long gestation and payback periods, and rapid changes in technology.
- **Minimal Fiscal Support from Government:** The level of fiscal support currently envisioned is minuscule.
- **Lack of Fabrication Capacities:** India has a decent chip design talent but it never built-up chip fab capacity. The ISRO and the DRDO have their respective fab foundries but they are primarily for their own requirements. India has **only one old fab which is located in Mohali, Punjab.**
- **Extremely Expensive Fab Setup:** A semiconductor fabrication facility can cost multiples of a billion dollars to set up even on a relatively small scale and lagging by a generation or two behind the latest in technology.
- **Resource Inefficient Sector:** Chip fabs are also very thirsty units requiring millions of liters of clean water, an extremely stable power supply, a lot of land and a highly skilled workforce.

As fiscal support is provided under India Semiconductor Mission, India can grow in the Semiconductor sector also. Semiconductors and displays are the foundation of modern electronics driving the next phase of digital transformation under Industry 4.0. India should aim to become a key player in a trusted, plurilateral semiconductor ecosystem that keeps key adversaries out. Favourable trade policies are critical for building a plurilateral semiconductor ecosystem.

[Print PDF](#)

IMPORTANT: https://disqus.com/admin/universalcode/#configuration-variables*/ var Disqus_config = function () { this.page.url = <https://www.drishtiiias.com/mains-marathon-daily-answer-writing-practice/papers/2022/need-promoting-semiconductor-industry-india-national-mission-help-achieving-paper-3-science-and-technology/about-us/general-introduction/print/print/print/print> // Replace PAGE_URL with your page's canonical URL variable this.page.identifier = '' // Replace PAGE_IDENTIFIER with your page's unique identifier variable }; (function() { // DON'T EDIT BELOW THIS LINE var d = document, s = d.createElement('script'); s.src = 'https://drishti-english.disqus.com/embed.js'; s.setAttribute('data-timestamp', +new Date()); (d.head || d.body).appendChild(s); })(); Please enable JavaScript to view the [comments powered by Disqus.](#)

More Links

- [Mains Strategy](#)
- [Blog](#)
- [EStore](#)

Be Mains Ready PDF

```
$(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.drishtiiias.com/mains-marathon-daily-answer-writing-practice/papers/2022/need-promoting-semiconductor-industry-india-national-mission-help-achieving-paper-3-science-and-technology/about-us/general-introduction/print/print/print/print"; $.ajax({ type: "POST", url: "https://www.drishtiiias.com/articles/progress", data: 'article='+article+'&type=2&articletitle='+title+'&url='+encodeURIComponent(url), success: function(data){ if(data=='success'){ if($('.progresslist').length){ $('.progresslist').prepend(''+title+''); } else { $('.message').hide(); $( ' ' ); } } } }); $('#sendbookmark').click(function(e){ var article=$('#article').val(); var title = $('#articletitle').val(); var url = "https://www.drishtiiias.com/mains-marathon-daily-answer-writing-practice/papers/2022/need-promoting-semiconductor-industry-india-national-mission-help-achieving-paper-3-science-and-technology/about-us/general-introduction/print/print/print/print"; $.ajax({ type: "POST", url: "https://www.drishtiiias.com//articles/progress", data: 'article='+article+'&type=1&articletitle='+title+'&url='+encodeURIComponent(url), success: function(data){ if(data=='success'){ if($('.bookmarklist').length){ $('.bookmarklist').prepend(''+title+''); } else { $('.message').hide(); $( ' ' ); } } } });
```

- ['+title+'](#)

```
').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); } }); }); $('#sendbookmark').click(function(e){ var article=$('#article').val(); var title = $('#articletitle').val(); var url = "https://www.drishtiiias.com/mains-marathon-daily-answer-writing-practice/papers/2022/need-promoting-semiconductor-industry-india-national-mission-help-achieving-paper-3-science-and-technology/about-us/general-introduction/print/print/print/print"; $.ajax({ type: "POST", url: "https://www.drishtiiias.com//articles/progress", data: 'article='+article+'&type=1&articletitle='+title+'&url='+encodeURIComponent(url), success: function(data){ if(data=='success'){ if($('.bookmarklist').length){ $('.bookmarklist').prepend(''+title+''); } else { $('.message').hide(); $( ' ' ); } } } });
```

- ['+title+'](#)

```
' ).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); // 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
```

```
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) ?
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:
"+=8%", }, 500 ); $(".float-tw").animate({ top: "+=16%", }, 600 ); $(".float-rs").animate({ top: "+=24%",
}, 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.drishtiiias.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
txtname=$('#txtname').val(); $('#nmsg').html(""); //$('.input-error').remove(); if(txtname.trim()==){
$('#txtname').addClass('input-error'); msg=false; }else{ $('#txtname').removeClass('input-error'); }
if(txtname.trim()==){ $('#txtname').addClass('input-error'); msg=false; }else
if(!regex.test(txtname)){ $('#txtname').addClass('input-error'); msg=false; }else{
$('#txtname').removeClass('input-error'); } if(msg){ var form=$('#newsletterfrm').serialize(); $.ajax({
type: "POST", url: "https://www.drishtiiias.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("");
$('#txtname').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.drishtiiias.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 &&
$('#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(); }); $('#testseriesfrm').submit(function(e){ var msg=true;
var txtname=$('#firstname').val(); var txtemail=$('#emailaddress').val(); var
txtmobile=$('#phonenumber').val(); $('#contactmsg').html(""); //$('.input-error').remove();
if(txtname.trim()==""){ $('#firstname').addClass('input-error'); msg=false; }else{
$('#firstname').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()==""){
$('#phonenumber').addClass('input-error'); msg=false; }else if(txtmobile.trim().length!=10){
$('#phonenumber').addClass('input-error'); msg=false; }else if(!phonex.test(txtmobile)){
$('#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 });
$("#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('mains-marathon-
daily-answer-writing-practice'); return; var
url='https://www.drishtias.com/archives/'+year+'-'+month+'-'+day; location=url;
//alert(url+'/archives/'+year+'/'+month+'/'+dat); }

```

PDF Refernece URL: <https://www.drishtias.com/mains-marathon-daily-answer-writing-practice/papers/2022/need-promoting-semiconductor-industry-india-national-mission-help-achieving-paper-3-science-and-technology/about-us/general-introduction/print/print/print/print>

