

यांत्रिक इंजीनियरी / MECHANICAL ENGINEERING

प्रश्न-पत्र I / Paper I

निर्धारित समय : तीन घंटे

Time Allowed : Three Hours

अधिकतम अंक : 250

Maximum Marks : 250

प्रश्न-पत्र सम्बन्धी विशेष अनुदेश

कृपया प्रश्नों के उत्तर देने से पूर्व निम्नलिखित प्रत्येक अनुदेश को ध्यानपूर्वक पढ़ें :

इसमें आठ प्रश्न हैं जो दो खण्डों में विभाजित हैं तथा हिन्दी और अंग्रेजी दोनों में छपे हुए हैं ।

परीक्षार्थी को कुल पाँच प्रश्नों के उत्तर देने हैं ।

प्रश्न संख्या 1 और 5 अनिवार्य हैं तथा बाकी प्रश्नों में से प्रत्येक खण्ड से कम-से-कम एक प्रश्न चुनकर किन्हीं तीन प्रश्नों के उत्तर दीजिए ।

प्रत्येक प्रश्न/भाग के अंक उसके सामने दिए गए हैं ।

प्रश्नों के उत्तर उसी प्राधिकृत माध्यम में लिखे जाने चाहिए जिसका उल्लेख आपके प्रवेश-पत्र में किया गया है, और इस माध्यम का स्पष्ट उल्लेख प्रश्न-सह-उत्तर (क्यू.सी.ए.) पुस्तिका के मुख-पृष्ठ पर निर्दिष्ट स्थान पर किया जाना चाहिए । प्राधिकृत माध्यम के अतिरिक्त अन्य किसी माध्यम में लिखे गए उत्तर पर कोई अंक नहीं मिलेंगे ।

प्रश्न का उत्तर देने के लिए यदि कोई पूर्वधारणाएँ बनाई गई हों, तो उन्हें स्पष्ट रूप से निर्दिष्ट कीजिए ।

जहाँ आवश्यक हो, आरेखों व चित्राकृतियों को, प्रश्न का उत्तर देने के लिए दिए गए स्थान में ही बनाइए ।

जब तक उल्लिखित न हो, संकेत तथा शब्दावली प्रचलित मानक अर्थों में प्रयुक्त हैं ।

प्रश्नों के उत्तरों की गणना क्रमानुसार की जाएगी । यदि काटा नहीं हो, तो प्रश्न के उत्तर की गणना की जाएगी चाहे वह उत्तर अंशतः दिया गया हो । प्रश्न-सह-उत्तर (क्यू.सी.ए.) पुस्तिका में खाली छोड़ा हुआ पृष्ठ का उसके अंश को स्पष्ट रूप से काटा जाना चाहिए ।

Question Paper Specific Instructions

Please read each of the following instructions carefully before attempting questions :

There are **EIGHT** questions divided in **TWO SECTIONS** and printed both in **HINDI** and in **ENGLISH**.

Candidate has to attempt **FIVE** questions in all.

Questions no. 1 and 5 are compulsory and out of the remaining, any **THREE** are to be attempted choosing at least **ONE** question from each section.

The number of marks carried by a question / part is indicated against it.

Answers must be written in the medium authorized in the Admission Certificate which must be stated clearly on the cover of this Question-cum-Answer (QCA) Booklet in the space provided. No marks will be given for answers written in a medium other than the authorized one.

Wherever any assumptions are made for answering a question, they must be clearly indicated.

Diagrams / Figures, wherever required, shall be drawn in the space provided for answering the question itself.

Unless otherwise mentioned, symbols and notations carry their usual standard meanings.

Attempts of questions shall be counted in sequential order. Unless struck off, attempt of a question shall be counted even if attempted partly. Any page or portion of the page left blank in the Question-cum-Answer (QCA) Booklet must be clearly struck off.

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SJ Ball



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framework enables human like decision making and control of autonomous vehicles which leads to safer and more efficient driving in complicated traffic scenarios The book will be of interest to students and professionals alike in the field of automotive engineering computer engineering and control engineering *Nuclear Energy Materials And Reactors - Volume I* Yassin A. Hassan, Robin A. Chaplin, 2010-09-22 Nuclear Energy Materials and Reactors is a component of Encyclopedia of Energy Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Nuclear energy is a type of technology involving the controlled use of nuclear fission to release energy for work including propulsion heat and the generation of electricity The theme on Nuclear Energy Materials and Reactors discusses Fundamentals of Nuclear Energy Nuclear Physics Nuclear Interactions Nuclear Reactor Theory Nuclear Reactor Design Nuclear Reactor Kinetics Reactivity Changes Nuclear Power Plants Pressurized Water Reactors Boiling Water Reactors Pressurized Heavy Water Reactors Heavy Water Light Water Reactors Advanced Gas Cooled Reactors Light Water Graphite Reactors High Temperature Gas Cooled Reactors Pebble Bed Modular Reactor Radioactive Wastes Origins Classification and Management Nuclear Reactor Overview and Reactor Cycles The Nuclear Reactor Closed Cycle Safety of Boiling Water Reactors Supercritical Water Cooled Nuclear Reactors Review and Status The Gas Turbine Modular Helium Reactor Application of Risk Assessment to Nuclear Power Plants Production and Recycling Resources for Nuclear Fission These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers **Monthly Catalog of United States Government Publications** ,1975 **UPSC IAS SYLLABUS CSE GS MAINS PRELIMS MICRO TOPICS ADVANCE STUDY BOOK** BEERAM SURYA CHANDRA, 2019-10-02 To benefit Upsc aspirants throughout India Smart Upsc Ias Syllabus Tracker 2020 has come up with it s official App through which it s expert guidance and Syllabus Tasks ELigibility cutoff of Upsc Exam can be accessed by student s on their phones from every nook and corner of India ALL UPSC PREPARATION FOR IAS IFS IPS IRS GS PRELIMS MAINS OPTIONAL UPSC SYLLABUS TRACKER GUIDE QUIZ PREVIOUS YEARS UNSTOPPABLE UPSC APP ENGLISH AND HINDI 2020 2021 2022 Upsc Syllabus Treding Ebook 2020 Key Main features of Our UPSC IAS CSE SYLLABUS BOOK 2020 Upsc Ias Books And Syllabus 2020 Upsc Ias Upsc Ias Syllabus in English Hindi Upcoming Upsc Prelims Syllabus in English Hindi Upcoming Upsc Mains Syllabus in English Hindi Upcoming Upsc Literature Syllabus in English Hindi Upcoming Upsc Optional Syllabus in English Hindi Upcoming Upsc Pre Mains About Upsc Exam upsc syllabus topic wise upsc ias smart syllabus upsc syllabus books in hindi upsc syllabus all books in hindi Upsc Ias Prelims Upsc Ias Mains Upsc Ias Optional Upsc Ias Literature Union Public Service Commission Union Public Service Commission preparation UPSC New Syllabus Preliminary and Mains Exam Civil Services Exam Syllabus books civil service exam books free Upsc cse Syllabus books Note You Can All These Syllabus in Our Syllabus Tracker Application Exclusive For Upsc Syllabus Key Main features of Our Tracker ENGLISH HINDI Application

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