

Total No. of Questions : 5]

[Total No. of Printed Pages : 3

Roll No D(A)CE191020.....

## CE-715 (A)

**B.E./B.Tech. VII Semester (UIT) Autonomous**

**Examination, December 2022**

### **Environmental Impact Assessment**

**Time : Three Hours**

**Maximum Marks : 105**

**Note:** Attempt all questions. Parts a, b, c of each question are compulsory for which the allotted marks are 3, 4, 4 respectively, and d & e part will have an internal choice for which the allotted marks are 10. All subparts of a question should be answered at one place.

Q. No.	Questions	CO
1.	a) Explain term "Environmental Inventory".	CO1
	b) Explain the purpose of EIA.	CO1
	c) Discuss about the organisation structure of EIA team.	CO1
	d) Illustrate Eight guiding principle of EIA.	CO1
	OR	
2.	e) Define and describe the terms : EIS and category 'A' and 'B' of projects.	CO1
	a) List out various methodology of EIA used in EIA impact study.	CO2
	b) Write explanatory notes on simple checklist methodology.	CO2
	c) Illustrate the concept of descriptive methodology.	CO2

# Mechanical 7th Sem Question Papers

**Ying Liu**



## **Mechanical 7th Sem Question Papers:**

Mechanical System Design Anup Goel, 2020-12-01 In machine design or design of machine elements we study about the design of individual components of machinery like shafts keys belts bolts gears etc In mechanical system design we mean that how these components are going to work in collaboration reliability of the system when different components work together This book includes design of conveyors for material handling systems belt conveyors design of multispeed gearbox for machine tools design of I C engine components and optimum design It also includes the design of pressure vessels used in mechanical systems This book provides a systematic exposition of the basic concepts and techniques involved in design of mechanical systems Our hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge      **Systems in Mechanical Engineering**

Anup Goel, 2021-01-01 Mechanical engineering as its name suggests deals with the mechanics of operation of mechanical systems This is the branch of engineering which includes design manufacturing analysis and maintenance of mechanical systems It combines engineering physics and mathematics principles with material science to design analyse manufacture and maintain mechanical systems This book covers the field requires an understanding of core areas including thermodynamics material science manufacturing energy conversion systems power transmission systems and mechanisms This book includes basic knowledge of various mechanical systems used in day to day life My hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge      **Elements Of Civil & Mechanical Engineering** L S Jayagopal, This book presents the

fundamentals of Civil and Mechanical Engineering Designed as per the revised and new core engineering paper of Basic Engineering I this book is written in a style suitable for students just out of school      Principles of Mechanical Engineering (MDU) Sadhu Singh, 2010 For the students of B E B Tech of Maharshi Dayanand University MDU Rohtak and Kurukshetra University Kurukshetra The book contains a large no of solved and unsolved problems This has been supplemented with Multichoice questions review questions true and false and fill in the blanks type of questions      **Mechanical Drawing**

Willard Walter Ermeling, Ferdinand August Paul Fischer, George Gould Greene, 1923      Mechanical Engineering American Society of Mechanical Engineers, 1947      Revue Semestrielle Des Publications Mathématiques, 1911      *Journal of the American Society of Mechanical Engineers*, 1913      Material Engineering Practice IX Mária Mihaliková, Pavol

Zubko, 2014-12-11 Selected peer reviewed papers from the 9th International Conference on Material in Engineering Practice IX June 12 13 2014 Her any Slovak Republic      *Index of Conference Proceedings Received* British Library. Lending

Division, 1980      **Link**, 1971      **Mechanical World and Engineering Record**, 1939      **Engineering English** John Hubert Scott, 1928      *Congressional Record*, 1882      **Nature** Sir Norman Lockyer, 1924      **Educational Research**

**Bulletin**, 1924      **Industrial-arts Magazine**, 1928      **Science and Art of Mining**, 1924      **Proceedings of the High**

**School Conference of November 1910-November 1931** Horace Adelbert Hollister,1927  
*School Conference of November 1910-November 1931 ,1926*

*Proceedings of the High*

Discover tales of courage and bravery in is empowering ebook, Unleash Courage in **Mechanical 7th Sem Question Papers** . In a downloadable PDF format ( \*), this collection inspires and motivates. Download now to witness the indomitable spirit of those who dared to be brave.

<https://www.splashdogs.com/book/browse/HomePages/matheacutematique%20du%20physicien%20la.pdf>

## **Table of Contents Mechanical 7th Sem Question Papers**

1. Understanding the eBook Mechanical 7th Sem Question Papers
  - The Rise of Digital Reading Mechanical 7th Sem Question Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical 7th Sem Question Papers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mechanical 7th Sem Question Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical 7th Sem Question Papers
  - Personalized Recommendations
  - Mechanical 7th Sem Question Papers User Reviews and Ratings
  - Mechanical 7th Sem Question Papers and Bestseller Lists
5. Accessing Mechanical 7th Sem Question Papers Free and Paid eBooks
  - Mechanical 7th Sem Question Papers Public Domain eBooks
  - Mechanical 7th Sem Question Papers eBook Subscription Services
  - Mechanical 7th Sem Question Papers Budget-Friendly Options
6. Navigating Mechanical 7th Sem Question Papers eBook Formats

- ePub, PDF, MOBI, and More
  - Mechanical 7th Sem Question Papers Compatibility with Devices
  - Mechanical 7th Sem Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Mechanical 7th Sem Question Papers
    - Highlighting and Note-Taking Mechanical 7th Sem Question Papers
    - Interactive Elements Mechanical 7th Sem Question Papers
  8. Staying Engaged with Mechanical 7th Sem Question Papers
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Mechanical 7th Sem Question Papers
  9. Balancing eBooks and Physical Books Mechanical 7th Sem Question Papers
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Mechanical 7th Sem Question Papers
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Mechanical 7th Sem Question Papers
    - Setting Reading Goals Mechanical 7th Sem Question Papers
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Mechanical 7th Sem Question Papers
    - Fact-Checking eBook Content of Mechanical 7th Sem Question Papers
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

## **Mechanical 7th Sem Question Papers Introduction**

In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project Gutenberg. This online library offers over 60,000 free eBooks that are in the public domain. From classic literature to historical documents, Project Gutenberg provides a wide range of PDF files that can be downloaded and enjoyed on various devices. The website is user-friendly and allows users to search for specific titles or browse through different categories. Another reliable platform for downloading Mechanical 7th Sem Question Papers free PDF files is Open Library. With its vast collection of over 1 million eBooks, Open Library has something for every reader. The website offers a seamless experience by providing options to borrow or download PDF files. Users simply need to create a free account to access this treasure trove of knowledge. Open Library also allows users to contribute by uploading and sharing their own PDF files, making it a collaborative platform for book enthusiasts. For those interested in academic resources, there are websites dedicated to providing free PDFs of research papers and scientific articles. One such website is Academia.edu, which allows researchers and scholars to share their work with a global audience. Users can download PDF files of research papers, theses, and dissertations covering a wide range of subjects. Academia.edu also provides a platform for discussions and networking within the academic community. When it comes to downloading Mechanical 7th Sem Question Papers free PDF files of magazines, brochures, and catalogs, Issuu is a popular choice. This digital publishing platform hosts a vast collection of publications from around the world. Users can search for specific titles or explore various categories and genres. Issuu offers a seamless reading experience with its user-friendly interface and allows users to download PDF files for offline reading. Apart from dedicated platforms, search engines also play a crucial role in finding free PDF files. Google, for instance, has an advanced search feature that allows users to filter results by file type. By specifying the file type as "PDF," users can find websites that offer free PDF downloads on a specific topic. While downloading Mechanical 7th Sem Question Papers free PDF files is convenient, its important to note that copyright laws must be respected. Always ensure that the PDF files you download are legally available for free. Many authors and publishers voluntarily provide free PDF versions of their work, but its essential to be cautious and verify the authenticity of the source before downloading Mechanical 7th Sem Question Papers. In conclusion, the internet offers numerous platforms and websites that allow users to download free PDF files legally. Whether its classic literature, research papers, or magazines, there is something for everyone. The platforms mentioned in this article, such as Project Gutenberg, Open Library, Academia.edu, and Issuu, provide access to a vast collection of PDF files. However, users

should always be cautious and verify the legality of the source before downloading Mechanical 7th Sem Question Papers any PDF files. With these platforms, the world of PDF downloads is just a click away.

### **FAQs About Mechanical 7th Sem Question Papers Books**

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer webbased readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Mechanical 7th Sem Question Papers is one of the best book in our library for free trial. We provide copy of Mechanical 7th Sem Question Papers in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Mechanical 7th Sem Question Papers. Where to download Mechanical 7th Sem Question Papers online for free? Are you looking for Mechanical 7th Sem Question Papers PDF? This is definitely going to save you time and cash in something you should think about. If you trying to find then search around for online. Without a doubt there are numerous these available and many of them have the freedom. However without doubt you receive whatever you purchase. An alternate way to get ideas is always to check another Mechanical 7th Sem Question Papers. This method for see exactly what may be included and adopt these ideas to your book. This site will almost certainly help you save time and effort, money and stress. If you are looking for free books then you really should consider finding to assist you try this. Several of Mechanical 7th Sem Question Papers are for sale to free while some are payable. If you arent sure if the books you would like to download works with for usage along with your computer, it is possible to download free trials. The free guides make it easy for someone to free access online library for download books to your device. You can get free download on free trial for lots of books categories. Our library is the biggest of these that have literally hundreds of thousands of different products categories represented. You will also see that there are specific sites catered to different product types or categories, brands or niches related with Mechanical 7th Sem Question Papers. So depending on what exactly you are searching, you will be able to choose e books to suit your own need. Need to access completely for Campbell Biology Seventh Edition book? Access Ebook without any digging. And by having access to



our ebook online or by storing it on your computer, you have convenient answers with Mechanical 7th Sem Question Papers To get started finding Mechanical 7th Sem Question Papers, you are right to find our website which has a comprehensive collection of books online. Our library is the biggest of these that have literally hundreds of thousands of different products represented. You will also see that there are specific sites catered to different categories or niches related with Mechanical 7th Sem Question Papers So depending on what exactly you are searching, you will be able to choose ebook to suit your own need. Thank you for reading Mechanical 7th Sem Question Papers. Maybe you have knowledge that, people have search numerous times for their favorite readings like this Mechanical 7th Sem Question Papers, but end up in harmful downloads. Rather than reading a good book with a cup of coffee in the afternoon, instead they juggled with some harmful bugs inside their laptop. Mechanical 7th Sem Question Papers is available in our book collection an online access to it is set as public so you can download it instantly. Our digital library spans in multiple locations, allowing you to get the most less latency time to download any of our books like this one. Merely said, Mechanical 7th Sem Question Papers is universally compatible with any devices to read.

### **Find Mechanical 7th Sem Question Papers :**

[matheacutematique du physicien la](#)

*math websites for ss1*

~~mathematical literacy exemplar and exam papers~~

**math trailblazer resource guide grade 4**

**math crct 7th answers**

*math colouring sheets*

*mathematical literacy grade12 paper2 june examination caps2014 memorandum*

*math 7 sol practice test*

**math grade 6**

**math makes sense student workbook grade 6**

[math kangaroo 2011 in usa](#)

[math common core buckle down](#)

**math reference sheet for 3rd grade**

[mathematical literacy paper2 grade12 september 2013](#)

**math pearson 8th grade workbook answer key**

**Mechanical 7th Sem Question Papers :**

28 best bakeries for delicious birthday cakes in singapore - Apr 07 2023

web aug 31 2023 from customised creations to fancy cakes we ve got everything you need on our list of shops with the best birthday cakes in singapore

*emicakes singapore buy cakes online* - May 08 2023

web emicakes singapore number 1 durian cake maker best in value cakes with great tastes experience customer centric services highly reviewed

**10 best cake shops in singapore with delivery get lana cakes** - Jun 09 2023

web jun 10 2021 whether you are celebrating an occasion or not cakes are perfect carriers of joy and sweetness satisfaction here are some of the 10 best cake shops in singapore with islandwide delivery the deli at goodwood park hotel 22 scotts road singapore 228221 tel 65 6730 1786

**the cake shop singapore cake delivery** - Sep 12 2023

web the cake shop is a leading online cake shop in singapore our cake delivery team provide 7 days delivery with express delivery available we specialize in baking eggless cakes birthday cakes children birthday cakes and all types of customization cakes

**1 online cake delivery shop in singapore birthday cakes** - Jul 10 2023

web make every occasion special with the most beautiful cakes in singapore place a cake order online on whyzee and enjoy delivery services across singapore

**1 online cake delivery singapore temptations cakes shop** - Oct 13 2023

web look no further than temptations cakes we specialize in providing premium quality cakes that are perfect for any occasion our online cake ordering process is simple and hassle free we offer same day cake delivery in singapore for your convenience browse our selection of cakes today and experience the temptations cakes difference

the patissier cakes online cake delivery singapore - Aug 11 2023

web 166 tyrwhitt road singapore 207570 the patissier an artisanal cake shop and bakery in singapore baked with the finest ingredients and are perfect for special occasions or as a daily treat

**liposomes fundamentals properties and applications for** - Apr 25 2023

web may 11 2022 this review describes liposomes structure composition preparation methods and clinical applications schematic representation of liposomes natural

**liposome classification preparation and applications** - Jul 29 2023

web feb 22 2013 table 1 advantages and disadvantages of liposome 19 open in a separate window it has been displayed that

phospholipids impulsively form closed

**liposomes structure composition types and clinical applications** - Mar 25 2023

web feb 28 2022 more specifically the main liposome properties should be investigated in specific solution conditions that resemble the standard conditions of administration

**liposomal nanostructures properties and applications** - Jul 17 2022

web aug 8 2019 1 book ratings friends following create a free account to discover what your friends think of this book read reviews from the world s largest community for

**methods of liposomes preparation formation and control** - Feb 21 2023

web sep 9 2021 1 school of medicine tehran university of medical sciences tehran iran 2 department of anatomy faculty of medicine universitas indonesia depok indonesia 3

*liposomes structure biomedical applications and stability* - Jan 23 2023

web feb 28 2022 methods of liposomes preparation formation and control factors of versatile nanocarriers for biomedical and nanomedicine application liposomes are

*frontiers liposomes structure biomedical* - May 27 2023

web download for offline reading highlight bookmark or take notes while you read liposomes fundamentals properties and applications for targeted drug delivery google logo

*liposomes fundamentals properties and* - Jan 11 2022

**liposome an overview sciencedirect topics** - Aug 18 2022

web phospholipids are the essential components of liposomes and sterols and nonionic and ionic amphiphiles are also used to enhance liposome stability large abdelmessih

liposomes fundamentals properties and - Mar 13 2022

web feb 22 2013 reverse phase evaporation is based on the creation of inverted micelles these inverted micelles are shaped upon sonication of a mixture of a buffered aqueous

*table of contents liposomes fundamentals* - Apr 13 2022

web properties and applications will also earn a place in the libraries of biophysicists and physical chemists seeking a one stop reference summarizing the rapidly evolving topic of

**liposomes fundamentals properties and applications for** - Sep 30 2023

web may 31 2019 they have the ability to entrap materials due to the spontaneous assembly of phospholipid molecules when in contact with aqueous media resulting in the formation of an aqueous inner core

liposomes fundamentals properties and applications f - May 15 2022

web 9781944749286 isbn 9781944749279 9781944749286 1944749276 login to z lib official channel follow us

**food liposomes structures components preparations and** - Jun 15 2022

web liposomes fundamentals properties and applications for targeted drug delivery by bhaskarwar ashok published 2018  
advances in liposomes research

**methods of liposomes preparation formation and control** - Nov 20 2022

web in the review the information about biological properties of liposomes and their application perspectives as independent medications so as transmitters of medicinal preparations is

*liposome classification preparation and applications* - Nov 08 2021

**liposome classification preparation and applications** - Oct 20 2022

web liposomes n van rooijen in encyclopedia of immunology second edition 1998 different liposomes for different applications  
liposomes can be prepared according

liposomes fundamentals properties and applications for - Feb 09 2022

**liposomes structure composition types and clinical applications** - Aug 30 2023

web may 13 2022 liposome cell interactions are influenced by a variety of factors including composition 43 the diameters of  
liposomes surface charge 44 targeting ligand on

*biological properties of liposomes and their practical application* - Sep 18 2022

web jan 1 2021 liposomal nanostructures properties and applications sciencedirect loading nanoscale processing micro and  
nano technologies 2021 pages 163 179

*liposomes structure composition types and clinical applications* - Jun 27 2023

web may 1 2022 walhan alshaer f add to mendeley doi org 10 1016 j heliyon 2022 e09394 get rights and content under a  
creative

**liposomes structure classification and applications** - Dec 22 2022

web feb 22 2013 1 department of medical nanotechnology faculty of advanced medical science tabriz university of medical  
sciences tabriz 51664 iran

**liposomes fundamentals properties and application 2023** - Dec 10 2021

eurocode 3 design of steel structures eurocodes building the - Nov 21 2022

web jan 1 1993 en 1993 eurocode 3 applies to the design of buildings and other civil engineering works in steel it complies with the principles and requirements for the safety and serviceability of structures the basis of their design and verification that are given in en 1990 basis of structural design

**design guides and manuals build using steel** - May 16 2022

web oct 1 2019 other design guides and manuals cold formed steel design textbook fifth edition 10 1 2019 this textbook includes the most important developments in cold formed steel design theory and practice that have taken place over the past two decades fire protection through modern building codes fifth edition october 1981 publication

**the steel construction manual** - Mar 14 2022

web the steel construction manual an introduction to designing steel structures using the aisc steel construction manual 13th edition by t bart quimby p e ph d owner principal engineer quimby associates eagle river alaska professor of civil engineering university of alaska anchorage august 2008

**manual for the design of steelwork building structures to ec3** - Sep 19 2022

web the institution of structural engineers and the institution of civil engineers decided to update the 1989 grey book manual for the design of steelwork building structures as a guidance for using ec3 and a task group was constituted for this manual is intended to provide guidance on the design of many common steel building frames and to show how

*ansi aisc 360 10 specification for structural steel buildings pdf* - Jan 12 2022

web sign in ansi aisc 360 10 specification for structural steel buildings pdf google drive sign in

handbook of structural steelwork 4th edition - Dec 23 2022

web steel designer s manual 6th edition charan chowdary b download free pdf view pdf final year project report design of a steel framed building economic aspects of the use of partial and full strength joints on multi storey unbraced steel frames 2006 nordin yahaya download free pdf view pdf design of structural elements eurocodes

**steel construction manual american institute of steel construction aisc** - Jun 28 2023

web the steel construction manual the premier reference for structural steel design and construction in the united states has been in print since 1927 since the early 2000s the manual has been updated and reissued as a new edition every five to six years to keep up with developments in structural steel codes and standards and to incorporate new

**handbook of handbook of structural steelwork steel** - Aug 31 2023

web the steel construction institute silwood park ascot berkshire sl5 7qn telephone 44 0 1344 636525 fax 44 0 1344 636570 email reception steel sci com website steel sci org the european operations of tata steel comprise europe s second largest steel producer with main steelmaking operations in

**code of standard practice for structural stainless steel buildings aisc** - Apr 14 2022

web ansi aisc 313 21 is the first code of standard practice for structural stainless steel buildings in the u s it covers the design fabrication and erection of structural stainless steel components and systems it complements the ansi aisc 370 21 specification and the aisc design guides for stainless steel

**sop manual for iron and steel mills and ferroalloy manufacturing** - Aug 19 2022

web the sop covers the details of the iron and steel mills and ferroalloys manufacturing industry the modern advancements the manufacturing processes the department of industries and the machineries used are explained the international standards and the associations guiding the industry are listed the leading companies in the sector are also

*handbook of structural steelwork uceb* - Jun 16 2022

web the steel construction institute silwood park ascot sl5 7qn tel 01344 623345 fax 01344 622944 p201 handbook of structural steelwork 3rd edition page numbering within this document may suggest that some pages are missing this is due to the fact that blank pages have been removed from this document

**design manual for structural stainless steel** - Mar 26 2023

web design manual for structural stainless steel 4th edition is a comprehensive guide for engineers architects and fabricators who design or use stainless steel in structural applications it covers the main grades properties fabrication methods and design considerations for different structural components it also includes examples tables and

pre engineered metal buildings erection and - May 28 2023

web pre engineered erection and metal buildings installation guide the methods procedures suggested by this erection guide are fundamental in nature and present good safe erection practices they can and should be modified when necessary to adapt to special conditions or circumstances

**manual of steel construction american institute of steel construction** - Feb 10 2022

web on spine steel construction manual originally published in 1926 under title steel construction access restricted item true addeddate 2010 03 15 20 02 02 bookplateleaf 0004 boxid ia115308 call number 766820 camera canon

**manual for the design of steelwork building structures third** - Oct 21 2022

web manuals manual for the design of building structures to eurocode 1 basis of structural design second ed this manual supports the design of non specialist building structures to bs en 1990 eurocode 0 and bs en 1991 eurocode 1 for uk construction date 6 september 2021 author various institution task group

steel designers manual 7th edition wiley - Feb 22 2023

web for the seventh edition of the steel designers manual all chapters have been comprehensively reviewed revised to ensure they reflect current approaches and best practice and brought in to compliance with en 1993 design of steel structures the so called eurocode 3

**15th ed steel construction manual american institute of steel aisc** - Apr 26 2023

web welcome to the home page of the steel construction manual 15th edition isbn 1 56424 007 1 description this edition of the manual contains more than 2 300 pages of structural steel design information the book is hardbound in durable blue vinyl with silver stamping each of the 18 major contents sections has a corresponding thumb cut for

**aisc steel construction manual 15th ed academia edu** - Jul 30 2023

web aisc steel construction manual 15th ed aisc steel construction manual 15th ed aisc steel construction manual 15th ed waldo pavez see full pdf download pdf see full pdf download pdf

*pdf manual for the design of steelwork building structures to* - Jan 24 2023

web the institution of structural engineers and the institution of civil engineers decid ed to update the 1989 grey book manual for the design of steelwork building structures as a guidance for using ec3 and a task group was constituted for this purpose

**operation and maintenance manual for structural steel scribd** - Jul 18 2022

web this operation and manual covers structural steel works to the alshams tower 1 ast at al reem island project abu dhabi u a e in order to have good finish high grade structural steel member are being used to construct the structure