

**Council for Technical Education and Vocational Training**  
**Office of the Controller of Examinations**  
 Sanothimi, Bhaktapur

**Program:** Regular/Back Exam-2073, Bhadra/Ashwin  
 Diploma in Civil/Architecture/Mechanical/  
 Automobile/ Information Technology/ Computer  
 / Electrical/ Electrical & Electronics/Electronics/  
 Geomatics/Engineering  
**Year/Part:** I/II (New Course)  
**Subject:** Math II

**Full Mark: 80**

**Pass Mark: 32**  
**Time: 3 hrs.**

*Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.*

**Attempt All questions**  
**Group "A" [3x(5+5)=30]**

1. ✓ a) Define Transpose of a matrix. If  $A = \begin{pmatrix} 1 & 2 \\ 3 & 0 \end{pmatrix}$ ,  $B = \begin{pmatrix} 2 & 1 \\ 1 & 2 \end{pmatrix}$ , [1+4=5]  
 verify that  $(AB)^T = B^T A^T$ .

[5]

b) Prove that

$$\begin{bmatrix} a+b+2c & c & c \\ a & b+c+2a & a \\ b & b & c+a+2b \end{bmatrix} = 2(a+b+c)^3$$

2. a) Show that the line joining the points (1,2,2) and (4,5,6) is [5]  
 perpendicular to the line joining (5,-3,4) and (7,-1,1).

- b) Find the equation of the plane containing the lines [5]  
 through the origin with direction cosines proportional to  
 2,1,-2 and 5,2,-3.

3. ✓ a) Define absolute value of a complex number. [1+4=5]

If  $\frac{1-ix}{1+ix} = a - ib$ . Prove that  $a^2 + b^2 = 1$

- b) Apply De-moiver's theorem to compute the cube roots of [5]  
 unity.

**Group "B" [10X5=50]**

4. ✓ Solve by using Cramer's Rule or ROW Equivalent Matrix [5]  
 method:

$$x+y-z=3$$

$$-2y+z=10$$

$$5x-y-2z=-3$$

5. ✓ In any  $\triangle ABC$ , Prove by vector method that [5]

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

# Mathematics For Engineering Model Question Paper

**E Durkheim**



## **Mathematics For Engineering Model Question Paper:**

Right here, we have countless books **Mathematics For Engineering Model Question Paper** and collections to check out. We additionally give variant types and along with type of the books to browse. The suitable book, fiction, history, novel, scientific research, as skillfully as various supplementary sorts of books are readily nearby here.

As this Mathematics For Engineering Model Question Paper, it ends stirring being one of the favored books Mathematics For Engineering Model Question Paper collections that we have. This is why you remain in the best website to see the incredible ebook to have.

[https://staging.conocer.cide.edu/public/browse/fetch.php/Idaho\\_Whitewater\\_The\\_Complete\\_River\\_Guide.pdf](https://staging.conocer.cide.edu/public/browse/fetch.php/Idaho_Whitewater_The_Complete_River_Guide.pdf)

## **Table of Contents Mathematics For Engineering Model Question Paper**

1. Understanding the eBook Mathematics For Engineering Model Question Paper
  - The Rise of Digital Reading Mathematics For Engineering Model Question Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics For Engineering Model Question Paper
  - 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 Mathematics For Engineering Model Question Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics For Engineering Model Question Paper
  - Personalized Recommendations
  - Mathematics For Engineering Model Question Paper User Reviews and Ratings
  - Mathematics For Engineering Model Question Paper and Bestseller Lists
5. Accessing Mathematics For Engineering Model Question Paper Free and Paid eBooks

- Mathematics For Engineering Model Question Paper Public Domain eBooks
- Mathematics For Engineering Model Question Paper eBook Subscription Services
- Mathematics For Engineering Model Question Paper Budget-Friendly Options
- 6. Navigating Mathematics For Engineering Model Question Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - Mathematics For Engineering Model Question Paper Compatibility with Devices
  - Mathematics For Engineering Model Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mathematics For Engineering Model Question Paper
  - Highlighting and Note-Taking Mathematics For Engineering Model Question Paper
  - Interactive Elements Mathematics For Engineering Model Question Paper
- 8. Staying Engaged with Mathematics For Engineering Model Question Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematics For Engineering Model Question Paper
- 9. Balancing eBooks and Physical Books Mathematics For Engineering Model Question Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematics For Engineering Model Question Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics For Engineering Model Question Paper
  - Setting Reading Goals Mathematics For Engineering Model Question Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics For Engineering Model Question Paper
  - Fact-Checking eBook Content of Mathematics For Engineering Model Question Paper
  - 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

### **Mathematics For Engineering Model Question Paper Introduction**

Mathematics For Engineering Model Question Paper Offers over 60,000 free eBooks, including many classics that are in the public domain. Open Library: Provides access to over 1 million free eBooks, including classic literature and contemporary works. Mathematics For Engineering Model Question Paper Offers a vast collection of books, some of which are available for free as PDF downloads, particularly older books in the public domain. Mathematics For Engineering Model Question Paper : This website hosts a vast collection of scientific articles, books, and textbooks. While it operates in a legal gray area due to copyright issues, its a popular resource for finding various publications. Internet Archive for Mathematics For Engineering Model Question Paper : Has an extensive collection of digital content, including books, articles, videos, and more. It has a massive library of free downloadable books. Free-eBooks Mathematics For Engineering Model Question Paper Offers a diverse range of free eBooks across various genres. Mathematics For Engineering Model Question Paper Focuses mainly on educational books, textbooks, and business books. It offers free PDF downloads for educational purposes. Mathematics For Engineering Model Question Paper Provides a large selection of free eBooks in different genres, which are available for download in various formats, including PDF. Finding specific Mathematics For Engineering Model Question Paper, especially related to Mathematics For Engineering Model Question Paper, might be challenging as theyre often artistic creations rather than practical blueprints. However, you can explore the following steps to search for or create your own Online Searches: Look for websites, forums, or blogs dedicated to Mathematics For Engineering Model Question Paper, Sometimes enthusiasts share their designs or concepts in PDF format. Books and Magazines Some Mathematics For Engineering Model Question Paper books or magazines might include. Look for these in online stores or libraries. Remember that while Mathematics For Engineering Model Question Paper, sharing copyrighted material without permission is not legal. Always ensure youre either creating your own or obtaining them from legitimate sources that allow sharing and downloading. Library Check if your local library offers eBook lending services. Many libraries have digital catalogs where you can borrow Mathematics For Engineering Model Question Paper eBooks for free, including popular titles. Online Retailers: Websites like Amazon, Google Books, or Apple Books often sell eBooks. Sometimes, authors or publishers offer promotions or free periods for certain books. Authors Website Occasionally, authors provide excerpts or short stories for free on their websites. While this might not be the Mathematics For Engineering Model Question Paper full book , it can give you a taste of the authors writing

style.Subscription Services Platforms like Kindle Unlimited or Scribd offer subscription-based access to a wide range of Mathematics For Engineering Model Question Paper eBooks, including some popular titles.

### FAQs About Mathematics For Engineering Model Question Paper Books

1. Where can I buy Mathematics For Engineering Model Question Paper books? Bookstores: Physical bookstores like Barnes & Noble, Waterstones, and independent local stores. Online Retailers: Amazon, Book Depository, and various online bookstores offer a wide range of books in physical and digital formats.
2. What are the different book formats available? Hardcover: Sturdy and durable, usually more expensive. Paperback: Cheaper, lighter, and more portable than hardcovers. E-books: Digital books available for e-readers like Kindle or software like Apple Books, Kindle, and Google Play Books.
3. How do I choose a Mathematics For Engineering Model Question Paper book to read? Genres: Consider the genre you enjoy (fiction, non-fiction, mystery, sci-fi, etc.). Recommendations: Ask friends, join book clubs, or explore online reviews and recommendations. Author: If you like a particular author, you might enjoy more of their work.
4. How do I take care of Mathematics For Engineering Model Question Paper books? Storage: Keep them away from direct sunlight and in a dry environment. Handling: Avoid folding pages, use bookmarks, and handle them with clean hands. Cleaning: Gently dust the covers and pages occasionally.
5. Can I borrow books without buying them? Public Libraries: Local libraries offer a wide range of books for borrowing. Book Swaps: Community book exchanges or online platforms where people exchange books.
6. How can I track my reading progress or manage my book collection? Book Tracking Apps: Goodreads, LibraryThing, and Book Catalogue are popular apps for tracking your reading progress and managing book collections. Spreadsheets: You can create your own spreadsheet to track books read, ratings, and other details.
7. What are Mathematics For Engineering Model Question Paper audiobooks, and where can I find them? Audiobooks: Audio recordings of books, perfect for listening while commuting or multitasking. Platforms: Audible, LibriVox, and Google Play Books offer a wide selection of audiobooks.
8. How do I support authors or the book industry? Buy Books: Purchase books from authors or independent bookstores. Reviews: Leave reviews on platforms like Goodreads or Amazon. Promotion: Share your favorite books on social media or recommend them to friends.
9. Are there book clubs or reading communities I can join? Local Clubs: Check for local book clubs in libraries or

community centers. Online Communities: Platforms like Goodreads have virtual book clubs and discussion groups.

10. Can I read Mathematics For Engineering Model Question Paper books for free? Public Domain Books: Many classic books are available for free as they're in the public domain. Free E-books: Some websites offer free e-books legally, like Project Gutenberg or Open Library.

### **Find Mathematics For Engineering Model Question Paper :**

[idaho whitewater the complete river guide](#)

**i want to change but i dont know how**

**i wonder what its like to be a bee**

~~icarus volume 14 a circle of women stories of the sisterhood~~

[icefloe international poetry of the far north vol 1 no 1](#)

[idea of biblical poetry parallelism and its history](#)

[ict and language learning integrating pedagogy and practice](#)

~~i wonder why new concordia sex education series~~

~~icebones gollanez sf s.~~

**i wanted to see**

**ibn seoud ou la naibance dun royaume le loup et le leopard**

**idea power techniques and resources to unleash the creativity in your organization**

[idea of the literary](#)

**ideas for librarians who teach with suggestions for teachers and business presenters**

[idaho state constitution a reference guide](#)

### **Mathematics For Engineering Model Question Paper :**

*mc 18hp parts manual uniport edu ng - Apr 29 2022*

web jun 12 2023 mc 18hp parts manual 2 3 downloaded from uniport edu ng on june 12 2023 by guest modern world

whether it s practical diy home improvement tips gadgets

**walker mc 18 hp owner s manual pdf download - Aug 14 2023**

web view and download walker mc 18 hp owner s manual online 18hp rider lawnmower mc 18 hp lawn mower pdf manual

download also for mc



**mc 18hp parts manual test naf** - Feb 25 2022

web about mc 18hp parts manual and how to guide mc 18hp parts manual that categorized in mc 18hp parts manual owner s  
amp service manuals browse by product below or

**mc 18hp parts manual lms duhs edu** - Dec 06 2022

web jun 4 2023 manual author john doe subject tutorial about mc 18hp parts manual and how to guide mc 18hp parts  
manual that categorized in mc 18hp parts manual

**mc 18hp parts manual triangular oxygenna** - Sep 03 2022

web ebook download mc 18hp parts manual mc 18hp parts manual pursuing for mc 18hp parts manual ebook download do  
you really need this pdf of mc 18hp parts download

**mcculloch fhh18a 1800 psi electric pressure washer parts** - Dec 26 2021

web may 4 2015 download mcculloch fhh18a 1800 psi electric pressure washer parts file name manual id271280 pdf  
downloads today 189 total downloads 4572 file rating

[mc 18hp parts manual affiliates mypthumb](#) - Nov 05 2022

web m20 20hp 49500 49620 suzuki motorcycle manuals download ebooks mc 18hp parts manual pdf mc 18hp parts manual  
new updated the mc 18hp parts manual from

[mc18hppartsmanual](#) - Feb 08 2023

web feb 24 2023 1 mc18hppartsmanual right here we have countless books mc18hppartsmanual and collections to check  
out we additionally offer variant types

**mc 18hp parts manual uniport edu ng** - May 31 2022

web mc 18hp parts manual 1 1 downloaded from uniport edu ng on september 14 2023 by guest mc 18hp parts manual when  
people should go to the book stores search

[get free mc 18hp parts manual pdf for free yora growthpath com](#) - Jul 01 2022

web aug 11 2023 to download and install mc 18hp parts manual consequently simple thank you for reading mc 18hp parts  
manual as you may know people have search

**walker mb 18 hp parts and owners manual pdf** - Jul 13 2023

web view and download walker mb 18 hp parts and owners manual online 18 hp rider lawnmower mb 18 hp lawn mower pdf  
manual download also for mb

**e pub mc 18hp parts manual download free** - Apr 10 2023

web aug 16 2023 e pub mc 18hp parts manual download free e pub mc 18hp parts manual download free quick reference  
parts manual operating and maintenance

**mc 18hp parts manual lia erc gov** - Sep 22 2021

web mc 18hp parts manual title ebooks mc 18hp parts manual category kindle and ebooks pdf author unidentified isbn785458 pearson education mc 18hp parts manual how

*husqvarna mc 18 9h spare parts operator s manual* - Jun 12 2023

web view and download husqvarna mc 18 9h spare parts operator s manual online husqvarna mc 18 saw spare parts operator s manual mc 18 9h saw pdf manual

**mc 18hp parts manual reports budgetbakers com** - Mar 29 2022

web mc 18hp parts manual 3 3 licensing requirements in professional services to pro competitive regulation in telecommunications services experience shows that the quality

**mc 18hp parts manual riddler nissan si** - Aug 02 2022

web mc 18hp parts manual 1 mc 18hp parts manual right here we have countless ebook mc 18hp parts manual and collections to check out we additionally find the money for

**mcculloch fhh18a manuals manualslib** - Nov 24 2021

web parts list 8 high pressure washer 8 advertisement mcculloch fhh18a user manual 7 pages view online or download mcculloch fhh18a user manual sign in upload

*mc 18hp parts manual jetpack theaoi* - Mar 09 2023

web ebook download mc 18hp parts manual mc 18hp parts manual pursuing for mc 18hp parts manual ebook download do you really need this pdf of mc 18hp parts title mc

**where to download mc 18hp parts manual free download pdf** - Jan 07 2023

web aug 10 2023 maintain winterize and recommission all parts of the system fuel deck fill engine batteries transmission stern gland propeller book one of a new series

**where to download mc 18hp parts manual pdf for free forge** - May 11 2023

web tune up and repair manuals provide the most comprehensive authoritative information available for outboard inboard and stern drive engines as well as personal watercraft

*hp 18c owner s manual pdf download manualslib* - Oct 24 2021

web pda hp ipaq h1910 supplementary manual backup and restore applications for ipaq pocket pc h3800 h3900 h5400 and h1910 series 42 pages related products for hp

*mc 18hp parts manual erp flagtheory* - Oct 04 2022

web may 6 2023 mc 18hp parts manual mc 18hp parts manual title ebooks mc 18hp parts manual category kindle and ebooks pdf author unidentified isbn785458 title mc

[get free mc 18hp parts manual pdf for free cmacts](#) - Jan 27 2022

web mar 24 2023 right site to start getting this info acquire the mc 18hp parts manual partner that we offer here and check out the link you could buy guide mc 18hp parts manual or

**15 worksheet s in regents preparation new york science teacher** - May 31 2023

web living environment living environment regents high school examination living environment wednesday june 14 2023 1 15 to 4 15

**title regents prep for living environment biology** - Jun 19 2022

web need a resource that is perfect for in class regents review tutoring or summer school this 37 page workbook is an amazing resource for reviewing all living environment

**biata marcia regents review materials** - Sep 03 2023

web apr 23 2019 answers to regents review packet 115 things you need to know for the living environment regents table and graph review this page has a bunch

[living environment regents review packet answer key](#) - Mar 17 2022

web jun 9 2022 bioliving setting regents examination date wednesday june 15 2022 this class this app was designed by a trainer who has used all potential multimedia sources

[living environment regents 2022 myans complete worksheet](#) - Jan 15 2022

web jan 5 2021 environment regents re answers topic 1 a literary masterpiece penned with a renowned author readers set about a transformative journey unlocking the

*living environment new york high school regents past* - Mar 29 2023

web 7szqtcvrpeqflshqkq this is the living environment boot camp survival guide it is a review packet that briefly reviews the major topic areas of the exam

**nys living environment regents review vocabulary** - Apr 17 2022

web regents exams and answers living environment revised edition sep 09 2023 barron s regents exams and answers living environment provides essential review

**living environment biology regents review packet tpt** - Jul 21 2022

web living environment regents review mock answer key and regents august 2022 grade levels 8th 10th subjects science special education test preparation resource

**living environment test prep practice final exam study com** - Nov 24 2022

web barron s regents exams and answers living environment provides essential review for students taking the living environment regents including actual exams administered

[living environment aecsd education](#) - Feb 25 2023

web jan 5 2021 this edition includes four actual regents exams regents exams and answers living environment four actual administered regents exams so students

**living environment regents prep resources new** - Jan 27 2023

web ny regents exam living environment test prep practice final exam free practice test instructions choose your answer to the question and click continue to see how

[living environment regents re answers topic 1 2023](#) - Nov 12 2021

**regents living environment power pack revised edition** - Dec 26 2022

web mar 7 2012 welcome to ecs living environment regents prep class answer keys answer keys are provided to answer any quesitons you may have please check your

*regents exams and answers living environment revised* - Sep 22 2022

web includes 3 5 pages of regents review questions for each of the following topics part 1 lab safety lab equipment part 2 scientific method scientific measurements part 3

**free pdf download** - Dec 14 2021

**amazon com regents exams and answers living environment** - Aug 22 2022

web the living environment exam consists of approximately 75 questions worth a total of 85 points the exam is broken down into four 4 parts part a general knowledge multiple

*living environment practice exam questions sprague biology* - Jul 01 2023

web a great quick practice for students with answers and clean clear easy to understand guided explanations of answers hope you and students like it surviving biology

[living environment regents review mock answer key and](#) - May 19 2022

web aug 10 2023 in a nutshell the living environment regents review packet answer key is a significant asset for students preparing for the exam it provides an opportunity for

**living environment science regents examinations osa p** - Oct 04 2023

web aug 31 2023 regents examination in living environment regular size version 1 47 mb large type version 1 64 mb scoring key pdf version 102 kb excel version 21

[living environment large type edition living](#) - Apr 29 2023

web note the june and august 2020 regents exams were cancelled due to covid 19 install the syvum regents living

environment ios app to get all these exams on your

*answer keys living environment regents prep google sites* - Oct 24 2022

web jan 5 2021 barron s regents exams and answers living environment provides essential review for students taking the living environment regents including actual

*regents living environment review packet* - Feb 13 2022

web answers regents living environment jan 30 2022 regents living environment bestseller thousands of students use sterling test prep study aids to achieve high test

*the best living environment regents review guide* - Aug 02 2023

web answer keys to practice exams scientific inquiry and experimental design exam download file scientific inquiry and experimental design key download file general

**2020 dressage nsw official event calendar equestrian australia** - Aug 26 2022

web 2020 dressage calendar 2020 dressage calendar 2019 dressage calendar 2019 closed event training days

**dnsw event calendar dressage new south wales** - Mar 21 2022

web oct 11 2023 dressage calendar 2024 2025 three years calendar uk bank holidays dressage theme jan 2024 to jun 2026 17 x 11 opened thick sturdy paper gift

**2024 dressage nsw official event calendar** - Oct 16 2021

**dressage wikipedia** - Jun 23 2022

web may 31 2020 the 2020 edition of the dutch dressage championships has returned on the calendar due to corona the dutch national championships were cancelled on 28 31

**yearly calendar equestrian south australia** - Apr 21 2022

web dnsw event calendar dnsw is trialling a combined calendar of oc cr cu and members training protocol days any feedback will be appreciated closed events

**equestrian at the 2020 summer olympics individual dressage** - Jun 04 2023

the individual dressage event at the 2020 summer olympics took place from 24 to 28 july 2021 at the haji koen like all other equestrian events the dressage competition is open gender with both male and female athletes competing in the same division 60 riders from 30 nations are expected to compete

**tokyo olympics equestrian eventing dressage and jumping** - Jul 05 2023

web jul 29 2021 when is the tokyo olympics eventing dressage and jumping here s the start times for the upcoming equestrian events to make sure you don t miss the action

**amazon com dressage calendar** - Dec 30 2022

web aug 15 2022 my dressage riding calendar elegant calendar diary or journal gift for horse lovers equestrians horseback and dressage riders with 108 pages 6 x 9

**dressage para dressage fei org** - Aug 06 2023

web the olympic channel with its popularity rapidly growing each year dressage is the ultimate expression of horse training and elegance often compared to ballet the intense

**fei dressage calendar shows new cdi dates and covid additions** - Apr 02 2023

web apr 30 2020 the fei dressage calendar task force held its second meeting on 28 april 2020 to review applications received for higher level events and approve several cdi s

**2020 dressage competition handbook equestrian** - Sep 26 2022

web 2020 dressage nsw official event calendar ch championship oc official competitive op official participant yh young horse rdf regional dressage festival fs freestyle

**dressage 2020 calendar help environment harvard edu** - Dec 18 2021

web british dressage major dates 2024 updated 25 09 23 subject to change summer season winter season january 2024 30 june 2024 july 2024 31 december 2024

**p s i dressage and show jumping with the stars back on the** - May 03 2023

web jun 15 2020 the 2020 p s i dressage and jumping with the stars is back on the calendar for 2020 after having been cancelled due to covid 19 the international classes

**2020 dutch dressage championships return on the calendar** - May 23 2022

web yearly calendar dates for individual equestrian disciplines click on the buttons to access show jumping 2020 show jumping calendar dressage 2020 dressage calendar

**british dressage major dates 2024** - Nov 16 2021

web 2024 dressage nsw official event calendar 13 aug 24 code ch championship oc official competitive op off participant yh young horse f freestyle

**top 10 dressage horse riding holidays worldwide** - Jan 19 2022

web we manage to pay for dressage 2020 calendar and numerous book collections from fictions to scientific research in any way in the course of them is this dressage 2020

**equestrian at the 2020 summer olympics wikipedia** - Mar 01 2023

web individual dressage dressage grand prix day 1 team dressage day 2 sunday 25 july 2021 17 00 22 00 individual dressage dressage grand prix day 2 team dressage

**dressage calendar 2024 2025 three years calendar uk** - Feb 17 2022

web 4 75 31 7 day extraordinary horse riding holiday in malaga andalucia airport transfer available 1 person 7 days available all year from us 1 323 spain 4 45 8 8 day

*home dressage today* - Nov 28 2022

web competitions calendar dressage competition is the test of training not only do you compete against other combinations in the class there is the opportunity to compete

**2020 dressage calendar equestrian new south wales** - Jul 25 2022

web dressage ' d r ε s α: 3 or d r ι ' s α: 3 a french term most commonly translated to mean training is a form of horse riding performed in exhibition and competition as well

*dressage main events fei* - Oct 08 2023

web welcome to fei dressage main events which represent the most important sporting get togethers of each year categorised into series championships and games they range

**competitions calendar esnz** - Oct 28 2022

web equestrian canada dressage competition calendar equestrian canada e store where merchandise can be purchased qualifying criteria dressage high performance

*amazon com dressage calendar 2020* - Sep 07 2023

web select the department you want to search in

*dressage calendar task force agrees proposals via video* - Jan 31 2023

web apr 17 2020 the dressage calendar task force one of the eight discipline specific task forces created by the fei to evaluate the impact of the covid 19 pandemic on the fei