1.3 Indicate whether each of the statements in COLLARY I applies to A only, B only, both A and B or naces of the Burss in COLLARY II. Write A only, B only, both A and B or name need to the question number (1.3.1 and 1.3.5) on your answer sheets.

COLUMN I	COLUMN 5
13.1 Effects of debredation	A reduced obscription of owtron double B cropper deficiency in water
133 Diselvertage's of dame	A promise seasonal ficoling B decreased loss of brothwesty
13.3 Cause's of come depletion	A increase in carbon diceds concentration in the atmosphere B CPC's
13.4 Effects of desert Roution	A induced productivity B goverty in local communities
13.5 Advertiges of OM looks	A prome-prope are resolved to peols if vegetables have a longer shelf life

5×2×000

1.4 The diagram below represents the flower of an Angicopern plant. Study the diagram and answer the questions that follow.



1.4.1 What is the collective name given to parts a, b, and c?

- 673
- 1.4.2 Is this flower likely to be self-pollineted? Give a research for your answer.
- 1.4.3 Whith LETTER recreases the and that ad develop into a faul?
- 育

1.5 Study the graph below of the strat load and CO, count in blood taken from an official parties and then arrayer the meetings below.





1.5.1 Discuss the bend of the curve in Graph A.

- 100
- 1.5.2 Describe the relationship between Graph A and Graph S.

SECTION B QUESTION 2

2.1 The table below shows the number of biberoulosis (TE) cases and the number of deaths from TE around the world in 2009.
Use the information in the table to answer the questions that follow.

Region	Alander of saves (1 000 s)	Mumber of deaths. (1 000°s)
Africa	3 900	400
The American	590	30
Eastern Undbergreen	1000	- 14
Europe	560	42
South-East Asia	4 900	400
Western Profits	2 900	240
Chronic tested	14,000	1,000

- 2.1.1 What type of micro-organism sauses 197
- 2.1.2 What type of medication is used to treat and ours TE? (1)
- 2.1.3 Work and the percentage of cases in Africa in terms of the global total.

  Show all your calculations.
- 2.1.4 Which county had the highest number of deaths from TE in 2009? (1)
- Suggest and explain reasons for the high number of TB cases in Africa in 2000.
- 2.1.8 One ONE symptom of TD. (1)

D\$4

40

60.

(CD)

# **Life Sciences Grade 11 Past Exam Papers**

**M** Mosston

**Life Sciences Grade 11 Past Exam Papers:** 

Immerse yourself in the artistry of words with Experience Art with is expressive creation, Immerse Yourself in **Life Sciences Grade 11 Past Exam Papers**. This ebook, presented in a PDF format (\*), is a masterpiece that goes beyond conventional storytelling. Indulge your senses in prose, poetry, and knowledge. Download now to let the beauty of literature and artistry envelop your mind in a unique and expressive way.

https://staging.conocer.cide.edu/results/browse/Documents/everfi payment types final quiz.pdf

#### **Table of Contents Life Sciences Grade 11 Past Exam Papers**

- 1. Understanding the eBook Life Sciences Grade 11 Past Exam Papers
  - The Rise of Digital Reading Life Sciences Grade 11 Past Exam Papers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Life Sciences Grade 11 Past Exam 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 Life Sciences Grade 11 Past Exam Papers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Life Sciences Grade 11 Past Exam Papers
  - Personalized Recommendations
  - $\circ\,$  Life Sciences Grade 11 Past Exam Papers User Reviews and Ratings
  - Life Sciences Grade 11 Past Exam Papers and Bestseller Lists
- 5. Accessing Life Sciences Grade 11 Past Exam Papers Free and Paid eBooks
  - Life Sciences Grade 11 Past Exam Papers Public Domain eBooks
  - Life Sciences Grade 11 Past Exam Papers eBook Subscription Services
  - Life Sciences Grade 11 Past Exam Papers Budget-Friendly Options

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

#### **Life Sciences Grade 11 Past Exam 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 Life Sciences Grade 11 Past Exam 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 Life Sciences Grade 11 Past Exam 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 Life Sciences Grade 11 Past Exam 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 Life Sciences Grade 11 Past Exam 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 Life Sciences Grade 11 Past Exam Papers any PDF files. With these platforms, the world of PDF downloads is just a click away.

#### FAQs About Life Sciences Grade 11 Past Exam 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 web-based 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. Life Sciences Grade 11 Past Exam Papers is one of the best book in our library for free trial. We provide copy of Life Sciences Grade 11 Past Exam Papers in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Life Sciences Grade 11 Past Exam Papers. Where to download Life Sciences Grade 11 Past Exam Papers online for free? Are you looking for Life Sciences Grade 11 Past Exam Papers PDF? This is definitely going to save you time and cash in something you should think about.

# Find Life Sciences Grade 11 Past Exam Papers:

everfi payment types final quiz
everything you need english edition
ever after drake the mccain saga book english edition
evernote com simple guide to evernote for dummies
evaluation form for boom lift operator

eureka 5892bvz boss 4d evan moor daily reading comprehension grade 6 answer everest college catalog 2014 phoenix az

## evaluating congruent triangles key

everfi final quiz answers module 9
europress ehp 2200 2600 3000 4000 5000 6000 user guide
evenflo triumph owners manual
everfi module flashcards
evergreen practice papers english solutions class 11
even more fun with equations answers 6 33

#### **Life Sciences Grade 11 Past Exam Papers:**

#### national diploma project management course nqf level 5 - Sep 04 2022

web national diploma project management learning programme id 58309 registration end date 30 june 2018 last date for enrolment 30 june 2019 nqf level 5 credits 247 duration 2 years learning assumed to be in place it is assumed that learners accessing this qualification are competent in communication at nqf level 4

national diploma management services qualification - Oct 05 2022

web management services practice a msp30at  $1 \times 3$  hour paper subject custodian department of operations management project management computer application productivity accounting and practical projects total tuition time 48 hours management services practice b msp30bt work integrated learning

diploma in management colleges fees syllabus admissions - Dec 27 2021

web diploma in management is a full time course that focuses on management fundamentals diploma in management focuses primarily on key management topics such as hr management marketing management finance management accounting communication skills organisational behaviour entrepreneurship and other elective subjects

national diploma office administration naf6 aie ac - Aug 15 2023

web the advanced will give you the skills to complete all the functions of an office manager public relations manager or an administrative manager it will equip you with office administration and management techniques financial accounting and reporting skills subjects business and office administration 3 financial statements management

# national diploma management management practice - Jun 13 2023

web diploma in management 4407 george campus full time diploma in management 4407 second avenue campus full time

diploma in management 4407 second avenue campus part time diploma in management 4407 missionvale campus full time diploma in management

# diploma nedir diploma ne demek turkcesozlukler com - Jan 28 2022

web letter or writing usually under seal conferring some privilege honor or power a document bearing record of a degree conferred by a literary society or educational institution İngilizce document certifying the successful completion of a course of study İngilizce an academic qualification received after completing a diploma program 2

# higher certificate in project management nqf5 operation management - Mar 30 2022

web higher certificate in project management nqf5 operation management school of information technology data science software or web developer programmer server network pc technician big data database ai machine learning

# nebosh national diploma in environmental management bsi - Apr 30 2022

web the nebosh environmental diploma teaches how to develop and implement effective environmental management systems it focuses on the main elements of uk and ec legislation for environmental protection and general principles of the management of environmental and pollution control

saqa - Jul 02 2022

web national diploma management moderation options any provider offering learning that will enable the achievement of this qualification must be accredited as a provider by the relevant etqa or an etqa that has a memorandum of understanding in place with the relevant etqa

## diploma tercümesi yeminli ve noter onaylı diploma Çevirisi - Feb 26 2022

web mar 16 2020 diploma tercümesi genellikle yÖk yüksek Öğretim kurumu tarafından denklik işlemleri için talep edilen bir belgedir diploma Çevirisi yapacağınız herhangi bir başvuru için yÖk harici kurumlar tarafından da yeminli yada noter onaylı diploma Çevirisi olarak talep edilebilmektedir bununla birlikte tip üniversitelerinden mezun olan

#### pdf national diploma management hlogi moela - Feb 09 2023

web a score of 18 is required for the national diploma extended curriculum assessment procedures applicants with a inal aps of 22 and more will be admitted to the programme applicants with a score of 20 to 21 will be admitted to what is the difference between a diploma and national diploma - Jul 14 2023

web feb 15 2023 this diploma in public administration and management a national diploma allows public servants to build on their existing knowledge and explore a variety of specialisations vital to middle managers in the public sector these specialisations are divided into eight courses within the qualification

#### national diploma business management nqf 6 saqa id - Jan 08 2023

web 1 registration the first thing you need to do is to register with the professional body that s cima acca cfa or icb with

nated you can skip this step 2 exemptions if you have an existing qualification you ll want to apply for exemptions with cima or acca the other institutes don t allow for exemptions 3 expert support

# diploma tercümesi yÖk denklik yÖk denklik - Aug 03 2022

web yurt dışından alınan diplomaların noter onaylı diploma tercümesi ile yÖk e yüksek Öğretim kurumu diploma denklik işlemleri için başvuru yapılır yurt dışında öğrenim görenlerin türkiye de üniversite mezunu kabul edebilmesi için diploma denklik belgesine ihtiyaçları vardır

# national diploma management ndmnt gimmenotes - Nov 06 2022

web second level business management ia business management ib fundamentals of communication communication contexts and applications management iia management iib administrative management iia administrative management iib

# higher national diploma in management hndm sri lanka - Dec 07 2022

web home courses management higher national diploma in management hndm courses hits 43846 rating higher national diploma in management hndm at the completion of the program the student will be expected to have gained knowledge of a broad range of relevant business related academic disciplines

#### **saqa** - Mar 10 2023

web the national diploma in management nqf level 6 allows the learner to work towards a nationally recognised whole qualification the qualification will allow both those in formal education and those already employed in organisations access due to its flexibility

national diploma management qualification code - May 12 2023

web with a score of 20 to 21 will be admitted to the national diploma extended curriculum applicants with a score of 18 to 19 will be required to do the tut potential assessment for applicants with a national certificate vocational admission requirement s a national certificate vocational with at least 50 for english home

#### is a national n diploma recognised regenesys reginsights - Apr 11 2023

web feb 14 2023 a national n diploma is not equivalent to a national diploma to enter a national n diploma programme you need a matric certificate or a completed nated level 3 qualification the national n diploma qualifications are focused on specific trades like engineering hair care financial management motor mechanic and so on

#### qualifications offered public management and leadership - Jun 01 2022

web qualifications offered undergraduate courses national diploma public management advanced diploma public management bachelor of administration postgraduate courses masters of public administration

#### le voyageur affama c la bia re a paris - May 15 2023

can be all best area within net connections if you wish to download and install the le voyageur affama c la bia re a paris it is

completely easy then past currently we extend the partner to buy and make bargains to download and install le voyageur affama c la bia re a paris for that reason simple postal services bill great britain

le voyageur affama c la bia re a paris charles lebrun book - Aug 18 2023

le voyageur affama c la bia re a paris is available in our digital library an online access to it is set as public so you can download it instantly our digital library spans in multiple countries allowing you to get the most less latency time to download any of our books like this one

#### cinéma voyageur libre et ambulant - Jun 04 2022

des jeunes hommes en situation d'exil utilisent ce film comme un espace libre de parole nous écoutons leurs peurs leurs pensées leurs rêves et tous ensemble nous réfléchissons à comment faire tomber les frontières ainsi qu'aux façons de construire des espaces de libertés et de solidarités multiples

<u>le voyageur affama c la bia re a paris olga knipper 2022</u> - Sep 07 2022

jan 23 2023 le voyageur affama c la bia re a paris is user friendly in our digital library an online entrance to it is set as public fittingly you can download it instantly

<u>le voyageur film 2016 allociné</u> - Aug 06 2022

jun 3 2019 synopsis adnan agent de voyages d'une petite ville du liban a toujours rêvé de parcourir le monde mais n a jamais eu la chance de quitter son pays les récits de ses clients résonnent al

le voyageur affama c la bia re a paris unifi - Feb 12 2023

le voyageur affama c la bia re a paris 1 le voyageur affama c la bia re a paris the only street in paris life on the rue des martyrs les editions glm 1923 1974 guide du routard lisbonne 2022 23 portugal Œuvres romanesques les plaisirs du voyage les agraites le prêtre jean le toison d or villeperdue feux d artifice à zanzibar

# le voyageur affama c la bia re a paris secure mowtampa - Jun 16 2023

le voyageur affama c la bia re a paris 1 le voyageur affama c la bia re a paris histoire de la réformation française portugal les editions glm 1923 1974 portugal madère açores guide du routard portugal 2019 À la carte portugal em africa guide du routard lisbonne et ses environs 2021 22 l univers histoire et description de tous les

le voyageur affamé la bière à paris by elisabeth pierre - Apr 14 2023

fetching le voyageur affamé la bière à paris by elisabeth pierre accordingly uncomplicated so are you question just perform exercises just what we meet the outlay of under as adeptly as review le voyageur affamé la bière à paris by elisabeth pierre what you like to read in the path of them is this le voyageur affamé la bière à

## tourisme et voyage collection voyageur affame fnac - Oct 08 2022

mar 26 2019 la collection voyageur affame au meilleur prix à la fnac plus de 25 tourisme et voyage voyageur affame en

stock neuf ou d'occasion libÉrons la fnac com livres voyage biblionet la librairie bsf livres thome media le lieu bleu ammareal kamehameha diced deals lili france planetesolde momox gibertjoseph bourseauxlivres

le voyageur affama c la bia re a paris uniport edu - Jul $05\ 2022$ 

apr 25 2023 le voyageur affama c la bia re a paris 2 6 downloaded from uniport edu ng on april 25 2023 by guest remarkable images are fifty engaging poignant and often funny written vignettes by parke which reveal the very human man behind the reclusive superstar from shooting hoops to

le voyageur affama c la bia re a paris pdf uniport edu - Apr 02 2022

may 20 2023 le voyageur affama c la bia re a paris 2 6 downloaded from uniport edu ng on may 20 2023 by guest experience when following the suggested order this series contains dark elements including over the top antiheroes who do as they please read at your own discretion epistola ii quillan medical aspects of space flight frank burkhart voris 1964

#### le voyageur affamé la bière à paris by elisabeth pierre - Jan 11 2023

le voyageur affamé la bière à paris by elisabeth pierre le live marseille aller dans les plus grandes soires april 30th 2020 ne ratez pas les nouveaux rendez vous du live le mercredi

le voyageur affamé la bière à paris by elisabeth pierre - Jul 17 2023

complet comme un guide et pratique comme une carte le voyageur affamé vous fait découvrir la gastronomie d une ville afin d en comprendre les spécificités et les habitudes alimentaires reflet de leurs pratiques sociales l alimentation révèle en effet la manière de vivre d une ville et de ses habitants affamé de découvertes de

<u>le voyageur sur france 3 que vaut le téléfilm avec eric</u> - Dec 10 2022

may 28 2019 france 3 diffuse ce soir le téléfilm le voyageur porté par eric cantona dans la peau d un flic itinérant qui traque les meurtriers à travers le pays faut il regarder cet unitaire policier

#### le voyageur affama c la bia re a paris copy uniport edu - Mar 01 2022

apr 16 2023 le voyageur affama c la bia re a paris thank you for reading le voyageur affama c la bia re a paris as you may know people have look hundreds times for their chosen novels like this le voyageur affama c la bia re a paris but end up in malicious downloads rather than reading a good book with a cup of coffee in the afternoon instead le voyageur affamé la bière à paris by elisabeth pierre - Mar 13 2023

jun 4 2023 un pliage original et exclusif vous visualisez d un seul coup d oeil le plan et les informations sur les adresses sélectionnées sans avoir à tourner et retourner la carte complet comme un guide et pratique comme une carte le voyageur affamé vous fait découvrir la gastronomie d une ville afin d en comprendre les

#### le voyageur affama c la bia re a paris pdf uniport edu - Nov 09 2022

apr 17 2023 le voyageur affama c la bia re a paris 2 6 downloaded from uniport edu ng on april 17 2023 by guest business

deal goes awry laird callum mcrae is in over his head struggling to keep his castle afloat he knows exactly what he has to do to save his family of brothers collecting a debt from the corrupt man who swindled him is his only mission le voyageur affamé la bière à paris by elisabeth pierre - Jan 31 2022

grâce à un pliage original et exclusif vous visualisez d un seul coup d oeil le plan et les informations sur les adresses sélectionnées sans avoir à tourner et retourner la carte complet comme un guide et pratique comme une carte le voyageur affamé vous fait découvrir la gastronomie d une ville afin d en comprendre les spécificités

<u>le voyageur affama c la bia re a paris pdf uniport edu</u> - May 03 2022

jun 11 2023 le voyageur affama c la bia re a paris 2 6 downloaded from uniport edu ng on june 11 2023 by guest rescue isn t the same feisty woman they stole her soul is broken her heart is hollow like mine because of the things she s seen she needs me in a way i ve never known and i will destroy the man who shattered what s mine

le voyageur affama c la bia re a paris pdf - Sep 19 2023

le voyageur affama c la bia re a paris sonata in g minor for violin henry purcell 1903 theater and film robert knopf 2008 10 01 this is the first book in more than twenty five years to examine the complex historical cultural and aesthetic relationship between theater and film and the effect that each has had on the other s

the most fishing knots on the internet animated and step by - Oct 23 2023

web fishing knots with over 60 fishing knots netknots has the most extensive fishing knot library on the internet the knots are both animated and illustrated as well as described in detail to help you tie the right knot correctly

how to tie fishing knots for beginners - May 18 2023

web beginner fishing knots here is a selection of great fishing knots to get you started from the arbor knot to tie your new line onto the reel to a selection of trusty knots to tie on your hook or lure these are all the knots you need to get started fishing have fun arbor knot arbor knot tie your fishing line to the spool or reel clinch knot

#### 10 fishing knots for hooks lure and swivels youtube - Jul 20 2023

web sep 16 2016 these are 10 fishing knot for hooks these are also fishing knots for lure swivels and more this video explains how to tie a fishing knot how to tie a palomar knot how to tie a knotless knot

#### fishing knots learn how to tie knots - Aug 21 2023

web knots alberto knot albright special arbor knot australian plait baja knot bimini twist blood knot bobber stopper knot brekley braid fishing knot bristol knot centauri knot davy knot double bowline knot double uni knot drop shot rig dropper loop easy snell knot egg loop knot eye crosser knot fg knot fish n fool knot harvey dry fly

## fishing knots animated knots by grog - Sep 22 2023

web fishing knots choose a knot below or scroll down for more information join different types or thickness of fishing line

used to attach the fishing line to the arbor or spool center strong loop for double line leader and loop to loop join strong double line leader and for loop to loop connections

# list of different types of fishing knots how to tie them - Apr 17 2023

web jig fishing knots palomar knot surf fishing knots for shock leaders albright knot fg knot drop shot fishing knots drop shot rig palomar knot soft bait fishing knots egg loop knot rapala knot non slip kreh loop knot deep sea offshore fishing knots bimini twist palomar knot dropper loop haywire twist beach fishing knots uni

# over 65 fishing knots listed alphabetically fishing knots by netknots - Jun 19 2023

web fishing knots all fishing knots line to line knot loop knots terminal connections beginner fishing knots fly fishing knots miscellaneous saltwater fishing knots tenkara knots rope knots rope knots list bends binding knots hitches loop knots arborist knots boating knots climbing knots rescue survival knots