

SECTION - I

BOTANY

Q. 1. Select and write the most appropriate answer from the given alternatives for each sub-question :

[7]

- (i) The pattern of ecosystem in which density and distribution of species vary along a horizontal gradient is _____.
 (a) zonation (b) stratification
 (c) ecological niche (d) speciation
- (ii) The enzyme affecting the shelf life of flavr savr tomato is _____.
 (a) galactosidase (b) trans acetylase
 (c) permease (d) polygalactouranase
- (iii) In nomenclature of RENs (restriction endo-nucleases) Hind III, III stands for _____.
 (a) genus name (b) species name
 (c) order of discovery (d) strain of the organism
- (iv) Rhizobium phaseoli fixes atmospheric nitrogen symbiotically in _____.
 (a) pea (b) bean (c) jowar (d) maize
- (v) In nucleotide, the nitrogen base is attached to carbon no. 1 of sugar by _____ bond.
 (a) glycosidic (b) hydrogen (c) phosphodiester (d) phosphate
- (vi) During biogas production microorganism used to bring about the anaerobic digestion is _____.
 (a) Pseudomonas (b) Rhizopus
 (c) Methanococcus (d) Methanobacillus
- (vii) A wheat variety resistant to hill bunt disease is _____.
 (a) Pusa Shubhra (b) Himgiri
 (c) Pusa Gaurav (d) Pusa Sawani

Q.2. (A) Answer in 'ONE' sentence each :

(6) [12]

- Define the term 'leaching'.
- Give reason – 'Buttermilk is used in the dough of dhokla.'
- What is palindrome in DNA ?
- What is biomagnification ?
- Give application of mutation breeding.
- What will be the length of eukaryotic DNA segment having 10 pairs of nucleotides ?

Q.2. (B) Draw a neat labelled diagram of the hair pin model of t-RNA.

(2)

Hsc Biology Board Question 2013 Bing

J Ma



Hsc Biology Board Question 2013 Bing:

Whispering the Strategies of Language: An Mental Journey through **Hsc Biology Board Question 2013 Bing**

In a digitally-driven world where monitors reign supreme and quick connection drowns out the subtleties of language, the profound secrets and mental nuances concealed within words usually go unheard. However, nestled within the pages of **Hsc Biology Board Question 2013 Bing** a charming literary treasure blinking with raw feelings, lies a fantastic quest waiting to be undertaken. Penned by a talented wordsmith, this marvelous opus invites viewers on an introspective trip, delicately unraveling the veiled truths and profound affect resonating within the material of every word. Within the emotional depths with this touching review, we can embark upon a honest exploration of the book is key themes, dissect their interesting writing fashion, and fail to the strong resonance it evokes deep within the recesses of readers hearts.

https://staging.conocer.cide.edu/About/Resources/Download_PDFS/genesis_el_the_genesis_miracles_and_prophecies.pdf

Table of Contents Hsc Biology Board Question 2013 Bing

1. Understanding the eBook Hsc Biology Board Question 2013 Bing
 - The Rise of Digital Reading Hsc Biology Board Question 2013 Bing
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Biology Board Question 2013 Bing
 - 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 Hsc Biology Board Question 2013 Bing
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Biology Board Question 2013 Bing
 - Personalized Recommendations
 - Hsc Biology Board Question 2013 Bing User Reviews and Ratings

- Hsc Biology Board Question 2013 Bing and Bestseller Lists
- 5. Accessing Hsc Biology Board Question 2013 Bing Free and Paid eBooks
 - Hsc Biology Board Question 2013 Bing Public Domain eBooks
 - Hsc Biology Board Question 2013 Bing eBook Subscription Services
 - Hsc Biology Board Question 2013 Bing Budget-Friendly Options
- 6. Navigating Hsc Biology Board Question 2013 Bing eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc Biology Board Question 2013 Bing Compatibility with Devices
 - Hsc Biology Board Question 2013 Bing Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc Biology Board Question 2013 Bing
 - Highlighting and Note-Taking Hsc Biology Board Question 2013 Bing
 - Interactive Elements Hsc Biology Board Question 2013 Bing
- 8. Staying Engaged with Hsc Biology Board Question 2013 Bing
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc Biology Board Question 2013 Bing
- 9. Balancing eBooks and Physical Books Hsc Biology Board Question 2013 Bing
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc Biology Board Question 2013 Bing
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hsc Biology Board Question 2013 Bing
 - Setting Reading Goals Hsc Biology Board Question 2013 Bing
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsc Biology Board Question 2013 Bing
 - Fact-Checking eBook Content of Hsc Biology Board Question 2013 Bing
 - 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

Hsc Biology Board Question 2013 Bing Introduction

Free PDF Books and Manuals for Download: Unlocking Knowledge at Your Fingertips In today's fast-paced digital age, obtaining valuable knowledge has become easier than ever. Thanks to the internet, a vast array of books and manuals are now available for free download in PDF format. Whether you are a student, professional, or simply an avid reader, this treasure trove of downloadable resources offers a wealth of information, conveniently accessible anytime, anywhere. The advent of online libraries and platforms dedicated to sharing knowledge has revolutionized the way we consume information. No longer confined to physical libraries or bookstores, readers can now access an extensive collection of digital books and manuals with just a few clicks. These resources, available in PDF, Microsoft Word, and PowerPoint formats, cater to a wide range of interests, including literature, technology, science, history, and much more. One notable platform where you can explore and download free Hsc Biology Board Question 2013 Bing PDF books and manuals is the internet's largest free library. Hosted online, this catalog compiles a vast assortment of documents, making it a veritable goldmine of knowledge. With its easy-to-use website interface and customizable PDF generator, this platform offers a user-friendly experience, allowing individuals to effortlessly navigate and access the information they seek. The availability of free PDF books and manuals on this platform demonstrates its commitment to democratizing education and empowering individuals with the tools needed to succeed in their chosen fields. It allows anyone, regardless of their background or financial limitations, to expand their horizons and gain insights from experts in various disciplines. One of the most significant advantages of downloading PDF books and manuals lies in their portability. Unlike physical copies, digital books can be stored and carried on a single device, such as a tablet or smartphone, saving valuable space and weight. This convenience makes it possible for readers to have their entire library at their fingertips, whether they are commuting, traveling, or simply enjoying a lazy afternoon at home. Additionally, digital files are easily searchable, enabling readers to locate specific information within seconds. With a few keystrokes, users can search for keywords, topics, or phrases, making research and finding relevant information a breeze. This efficiency saves time and effort, streamlining the learning process and allowing individuals to focus on extracting the information they need. Furthermore, the availability of free PDF books and manuals fosters a culture

of continuous learning. By removing financial barriers, more people can access educational resources and pursue lifelong learning, contributing to personal growth and professional development. This democratization of knowledge promotes intellectual curiosity and empowers individuals to become lifelong learners, promoting progress and innovation in various fields. It is worth noting that while accessing free Hsc Biology Board Question 2013 Bing PDF books and manuals is convenient and cost-effective, it is vital to respect copyright laws and intellectual property rights. Platforms offering free downloads often operate within legal boundaries, ensuring that the materials they provide are either in the public domain or authorized for distribution. By adhering to copyright laws, users can enjoy the benefits of free access to knowledge while supporting the authors and publishers who make these resources available. In conclusion, the availability of Hsc Biology Board Question 2013 Bing free PDF books and manuals for download has revolutionized the way we access and consume knowledge. With just a few clicks, individuals can explore a vast collection of resources across different disciplines, all free of charge. This accessibility empowers individuals to become lifelong learners, contributing to personal growth, professional development, and the advancement of society as a whole. So why not unlock a world of knowledge today? Start exploring the vast sea of free PDF books and manuals waiting to be discovered right at your fingertips.

FAQs About Hsc Biology Board Question 2013 Bing Books

What is a Hsc Biology Board Question 2013 Bing PDF? A PDF (Portable Document Format) is a file format developed by Adobe that preserves the layout and formatting of a document, regardless of the software, hardware, or operating system used to view or print it. **How do I create a Hsc Biology Board Question 2013 Bing PDF?** There are several ways to create a PDF: Use software like Adobe Acrobat, Microsoft Word, or Google Docs, which often have built-in PDF creation tools. Print to PDF: Many applications and operating systems have a "Print to PDF" option that allows you to save a document as a PDF file instead of printing it on paper. Online converters: There are various online tools that can convert different file types to PDF. **How do I edit a Hsc Biology Board Question 2013 Bing PDF?** Editing a PDF can be done with software like Adobe Acrobat, which allows direct editing of text, images, and other elements within the PDF. Some free tools, like PDFescape or Smallpdf, also offer basic editing capabilities. **How do I convert a Hsc Biology Board Question 2013 Bing PDF to another file format?** There are multiple ways to convert a PDF to another format: Use online converters like Smallpdf, Zamzar, or Adobe Acrobats export feature to convert PDFs to formats like Word, Excel, JPEG, etc. Software like Adobe Acrobat, Microsoft Word, or other PDF editors may have options to export or save PDFs in different formats. **How do I password-protect a Hsc Biology Board Question 2013 Bing PDF?** Most PDF editing software allows you to add password protection. In Adobe Acrobat, for instance, you can go to "File" -> "Properties" -> "Security" to set a password to

restrict access or editing capabilities. Are there any free alternatives to Adobe Acrobat for working with PDFs? Yes, there are many free alternatives for working with PDFs, such as: LibreOffice: Offers PDF editing features. PDFsam: Allows splitting, merging, and editing PDFs. Foxit Reader: Provides basic PDF viewing and editing capabilities. How do I compress a PDF file? You can use online tools like Smallpdf, ILovePDF, or desktop software like Adobe Acrobat to compress PDF files without significant quality loss. Compression reduces the file size, making it easier to share and download. Can I fill out forms in a PDF file? Yes, most PDF viewers/editors like Adobe Acrobat, Preview (on Mac), or various online tools allow you to fill out forms in PDF files by selecting text fields and entering information. Are there any restrictions when working with PDFs? Some PDFs might have restrictions set by their creator, such as password protection, editing restrictions, or print restrictions. Breaking these restrictions might require specific software or tools, which may or may not be legal depending on the circumstances and local laws.

Find Hsc Biology Board Question 2013 Bing :

genesis el the genesis miracles and prophecies

generar exito practicos

gender & american politics rev and exp 2nd

generals who changed the world

general geocryology

generative studies in romance languages

gender and culture in america

general history for colleges high sc

gene transfer and expression in mammalian cells

geez-louise

generations of israel

gendered spaces

general oglethorpe39s georgia colonial letters 17331743 set

general history and collection of voyages and trav

gender religion and spirituality

Hsc Biology Board Question 2013 Bing :

time pieces a dublin memoir ebook 2018 worldcat org - Dec 06 2022

web feb 27 2018 from the internationally acclaimed booker prize winning author of the sea comes a delicious memoir new york times that unfolds around the author s

[an irish flâneur greeting the past on his present](#) - Mar 09 2023

web about time pieces from the internationally acclaimed booker prize winning author of the sea comes a delicious memoir new york times that unfolds around the author s

time pieces a dublin memoir banville john amazon co uk - Aug 14 2023

web oct 20 2016 time pieces a dublin memoir author john banville isbn 13 978 1473619043 publisher hachette books ireland guideline price 24 99 of all the great

time pieces a dublin memoir kindle edition amazon com - Oct 24 2021

time pieces a dublin memoir by john banville books upstairs - Nov 24 2021

time pieces a dublin memoir kindle edition amazon com - Apr 10 2023

web feb 27 2018 time pieces a dublin memoir user review book verdict award winning irish novelist banville mrs osmond the blue guitar as crime writer benjamin black

time pieces a dublin memoir banville john 9781524732837 - Mar 29 2022

web time pieces a dublin memoir banville john amazon com tr kitap Çerez tercihlerinizi seçin Çerez bildirimimizde ayrıntılı şekilde açıklandığı üzere alışveriş yapmanızı

time pieces a dublin memoir by john banville review utterly - Jul 13 2023

web buy time pieces a dublin memoir by banville john joyce paul isbn 9781473619043 from amazon s book store everyday low prices and free delivery on eligible orders

time pieces a dublin memoir a book by john banville bookshop - Feb 25 2022

web feb 27 2018 though billed as a memoir time pieces is only occasionally personal in the memoiristic way banville works in many pages of chatty travelogue complete with

time pieces a dublin memoir hardcover 20 oct 2016 - Jun 12 2023

web for the young john banville dublin was a place of enchantment and yearning time pieces is a vivid evocation of childhood and memory that bright abyss in which time s

time pieces a dublin memoir kindle edition amazon co uk - Sep 03 2022

web time pieces a dublin memoir john banville photos by paul joyce knopf 25 95 224p isbn 978 1 5247 3283 7 in this subtle elegant memoir irish novelist and screenwriter

time pieces a dublin memoir john banville paul joyce - Apr 29 2022

web from the internationally acclaimed booker prize winning author of the sea comes a delicious memoir new york times that unfolds around the author s recollections

time pieces a dublin memoir hardcover barnes noble - Oct 04 2022

web from the internationally acclaimed booker prize winning author of the sea comes a delicious memoir new york times that unfolds around the author s recollections

time pieces a dublin memoir amazon ca - Aug 02 2022

web time pieces a dublin memoir audiobook written by john banville narrated by john lee get instant access to all your favorite books no monthly commitment listen online or

time pieces a dublin memoir banville john author free - May 11 2023

web feb 27 2018 from the internationally acclaimed booker prize winning author of the sea comes a delicious memoir new york times that unfolds around the author s

time pieces on apple books - Nov 05 2022

web alternating between vignettes of banville s own past and present day historical explorations of the city time pieces is a vivid evocation of childhood and memory that bright abyss

time pieces a dublin memoir john banville google books - Feb 08 2023

web time pieces a dublin memoir john banville paul joyce presents a memoir of the author s life near dublin a city that inspired his imagination and literary life and served

time pieces penguin random house - Jan 07 2023

web feb 27 2018 a dublin memoir john banville 4 4 9 ratings 13 99 publisher description from the internationally acclaimed booker prize winning author of the sea

time pieces a dublin memoir amazon com - Sep 15 2023

web time pieces a dublin memoir hardcover illustrated 1 jan 1900 from the internationally acclaimed booker prize winning author of the sea comes a delicious

time pieces a dublin memoir by john banville publishers weekly - Jul 01 2022

web if you re interested in dublin or if you re interested in the novelist john banville or if you re interested in radiantly superb sentences about whatever i m all three then time

time pieces a dublin memoir amazon com tr - Jan 27 2022

web oct 6 2016 time pieces a dublin memoir by john banville buy online at books upstairs by john banville 29 00 out of stock
home memoir and biography time

time pieces a dublin memoir book marks - Dec 26 2021

web oct 20 2016 time pieces a dublin memoir kindle edition by john banville author paul joyce author format kindle edition
128 ratings 3 7 on goodreads 675 ratings

time pieces a dublin memoir google play - May 31 2022

web time pieces a dublin memoir hardcover banville john 3 73 avg rating 734 ratings by goodreads hardcover isbn 10
1524732834isbn 13 9781524732837 publisher

why new orleans matters kindle edition amazon com - Oct 31 2021

web aug 25 2015 in why new orleans matters first published only months after the disaster award winning author and
longtime new orleans resident tom piazza illuminates the

why new orleans matters better world books - Sep 10 2022

web aug 19 2008 why new orleans matters by tom piazza paperback book 197 pages see other available editions description
award winning novelist and cultural critic tom

why new orleans matters by tom piazza open library - Dec 13 2022

web why new orleans matters by tom piazza 2006 regan books edition in english 1st ed

why new orleans matters 2005 edition open library - Mar 04 2022

web why new orleans matters by tom piazza tom piazza 2005 reganbooks edition in english 1st ed

why new orleans matters 2015 edition open library - Jun 19 2023

web why new orleans matters by tom piazza 2015 harpercollins publishers edition in english

why new orleans matters on apple books - Mar 16 2023

web why new orleans matters tom piazza 9 99 publisher description tom piazza s award winning portrait of a city in crisis
with a new preface from the author ten years after ten

why new orleans matters by tom piazza open library - Feb 03 2022

web nov 22 2005 why new orleans matters by tom piazza tom piazza november 22 2005 harper edition hardcover in english

why new orleans matters by tom piazza goodreads - Aug 21 2023

web nov 22 2005 in why new orleans matters award winning author and new orleans resident tom piazza illuminates the
storied culture and uncertain future of this great and

why new orleans matters 2007 edition open library - May 18 2023

web jul 8 2019 why new orleans matters by tom piazza tom piazza 2007 harpercollins edition electronic resource in english

why new orleans matters english edition web mei - Jun 07 2022

web 4 *why new orleans matters english edition 2020 05 25 perspective takes in language from cockney to creole aboriginal english to zummerzet estuary english to*

editions of why new orleans matters by tom piazza goodreads - Sep 22 2023

web editions for *why new orleans matters* 0061124834 hardcover published in 2005 0061131504 paperback published in 2008 kindle edition published in 20

why new orleans matters english edition kindle editie - Dec 01 2021

web *why new orleans matters english edition ebook piazza tom amazon nl kindle store*

sam altman to return as ceo of openai openai the guardian - Apr 05 2022

web 2 days ago first published on wed 22 nov 2023 01 35 est sam altman is to return as chief executive of openai after the chatgpt developer said it had reached an

why new orleans matters english edition kindle edition - Jul 08 2022

web *why new orleans matters english edition ebook piazza tom amazon de kindle store*

download why new orleans matters pdf by tom piazza - Aug 09 2022

web in the preface to this new edition piazza considers how far the city has come in the decade since katrina as well as the challenges it still faces and reminds us that people in

why new orleans matters kindle edition amazon com - Jan 14 2023

web oct 13 2009 in *why new orleans matters* award winning author and new orleans resident tom piazza illuminates the storied culture and uncertain future of this great and

why new orleans matters by tom piazza paperback - Jul 20 2023

web aug 25 2015 now he revisits *why new orleans matters* and in an all new foreword for this edition re examines the story of katrina as a cautionary tale for a nation that has

why new orleans matters overdrive - Nov 12 2022

web aug 25 2015 tom piazza s award winning portrait of a city in crisis with a new preface from the author ten years after ten years ago in the aftermath of hurricane katrina and

why new orleans matters on apple books - Feb 15 2023

web oct 13 2009 in *why new orleans matters* award winning author and new orleans resident tom piazza illuminates the storied culture and uncertain future of this great and

why new orleans matters piazza tom free download - Oct 23 2023

web sep 27 2011 *why new orleans matters piazza tom free download borrow and streaming internet archive*

why new orleans matters 2007 edition open library - Jan 02 2022

web why new orleans matters by tom piazza 2007 harpercollins publishers edition in english

why new orleans matters english edition kindle edition - Oct 11 2022

web why new orleans matters english edition ebook piazza tom amazon nl kindle store

why new orleans matters november 22 2005 edition open - Apr 17 2023

web nov 22 2005 why new orleans matters by tom piazza tom piazza november 22 2005 harper edition in english

new orleans review since 1968 - May 06 2022

web an anecdotal history of art according to matthew collings part 3 the ecstasy of color art column by emily farranto in parts 1 and 2 of this three part piece i addressed

datatecyl hands on machine learning with scikit learn keras - May 20 2023

web sep 5 2019 hands on machine learning with scikit learn keras and tensorflow concepts tools and techniques to build intelligent systems aurélien géron o reilly

hands on machine learning with scikit learn keras and - Sep 24 2023

get full access to hands on machine learning with scikit learn keras and tensorflow 2nd edition and 60k other titles with a free 10 day trial of o reilly there are also live events courses curated by job role and more see more

hands on machine learning with scikit learn and tensorflow - Jul 10 2022

web hands on machine learning with scikit learn keras and tensorflow concepts tools and techniques to build intelligent systems second edition beijing boston farnham

hands on machine learning with scikit learn keras - Aug 11 2022

web hands on machine learning with scikit learn keras and tensorflow concepts tools and techniques to build intelligent systems october 2019 author aurelien geron

book review hands on machine learning with scikit learn - Oct 13 2022

web aug 12 2020 book review hands on machine learning with scikit learn keras and tensorflow 2nd edition by aurélien géron o reilly media 2019 600 pp isbn 978 1

ageron handson ml2 github - Oct 01 2021

web this project aims at teaching you the fundamentals of machine learning in python it contains the example code and solutions to the exercises in the second edition of my

learning resources keras - Jun 09 2022

web hands on machine learning with scikit learn keras and tensorflow second edition by aurélien géron practical machine learning for computer vision by valliappa

book review hands on machine learning with scikit learn - Apr 07 2022

web aug 12 2020 this book s strength is its vast exploration of all aspects of machine learning while explaining the nuisances of machine learning particularly using python scikit

hands on machine learning with scikit learn keras - Nov 14 2022

web chapter 1 the machine learning landscape when most people hear machine learning they picture a robot a dependable butler or a deadly terminator depending

hands on machine learning with scikit learn - Mar 06 2022

web hands on machine learning with scikit learn keras and tensorflow concepts tools and techniques to build intelligent systems third edition full colour print

hands on machine learning with scikit learn keras and - Aug 31 2021

web oct 15 2019 hands on machine learning with scikit learn keras and tensorflow concepts tools and techniques to build intelligent systems géron aurélien on

fundamentals of machine learning using python online - Nov 02 2021

web one of the course s central pillars is the practical implementation of machine learning models using python libraries python s versatility and a rich ecosystem of libraries such

hands on machine learning with scikit learn keras - Feb 17 2023

web hands on machine learning with scikit learn keras and tensorflow concepts tools and techniques to build intelligent systems aurelien geron amazon com tr kitap

hands on machine learning with scikit learn keras - Mar 18 2023

web machine learning notebooks 3rd edition this project aims at teaching you the fundamentals of machine learning in python it contains the example code and

hands on machine learning with scikit learn keras - Jul 22 2023

table of contents product information see more

machine learning education tensorflow - Dec 15 2022

web hands on machine learning with scikit learn keras and tensorflow by aurélien géron using concrete examples minimal theory and two production ready python

hands on machine learning with scikit learn keras and - Jan 04 2022

web currently the book has a total number of 1896 ratings given by the customer and the overall score of the book is 4 7 out of 5 and it is the best the following image shows the

machine learning mastery club hands on artificial meetup - Dec 03 2021

web oct 25 2023 hands on machine learning with scikit learn keras and tensorflow is a cornerstone in the world of machine learning literature this third edition of the book is

hands on machine learning with scikit learn keras and - Apr 19 2023

web machine learning notebooks 3rd edition this project aims at teaching you the fundamentals of machine learning in python it contains the example code and

hands on machine learning with scikit learn keras and tensorflow - May 08 2022

web jun 26 2021 what is machine learning why use machine learning types of machine learning systems supervised unsupervised learning supervised learning batch and

hands on machine learning with scikit learn keras and - Jan 16 2023

web oct 4 2022 hands on machine learning with scikit learn keras and tensorflow aurélien géron o reilly media inc oct 4 2022 computers 864 pages through a

hands on machine learning with scikit learn keras and - Aug 23 2023

through a series of recent breakthroughs deep learning has boosted the entire field of machine learning now even programmers who know close to nothing about this technology can use simple efficient tools to see more

solution to exercise 1 of hands on machine learning with scikit - Feb 05 2022

web jul 26 2020 reinforcement learning is the machine learning algorithm that should be used which will allow the robot to observe the environment select and perform actions

ageron handson ml3 github - Jun 21 2023

the machine learning tsunami machine learning in your projects objective and approach prerequisites roadmap changes in the second edition see more

hands on machine learning with scikit learn keras and - Sep 12 2022

web part 1 employs scikit learn to introduce fundamental machine learning tasks such as simple linear regression part 2 which has been significantly updated employs keras