

**BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI**  
**SECOND SEMESTER 2021-2022**

**MID SEMESTER EXAMINATION-ENGINEERING HYDROLOGY (CLOSE BOOK)**

Course No: CE F321

Duration: 90 min (2:00 – 3:30 PM)

Date: 15-03-2022 (Tuesday)

Max. Marks: 60

**Instructions:**

1. Show all calculations/steps in detail. No marks will be awarded for correct answers without proper calculations
2. Read question carefully and express the answers only in the units you are instructed to use
3. Use graph paper wherever necessary and sharing of calculators is not allowed

**Q.1. Answer the following in the form of a short paragraph/points:**

**[2 x 5 = 10 M]**

- a. Please list the storage and transportation components of a hydrologic cycle.
- b. Differentiate between phi index and w index. Also mention respective equations.
- c. Why do we represent precipitation in 'depth' units instead of 'volumetric' units? Explain with the help of an example.
- d. What do you mean by 80% dependable yield or runoff volume?
- e. What is ADCP and how it works?

**Q.2.**

a. Hydrologists in the southern India examined an area of 1235.53 acres and found predominance of non-black cotton soil and  $CN_2$  has been established as 68. (a) If the total rainfall in the past five days is 25 cm and the season is dormant season, estimate the runoff volume due to 80 mm of rainfall in a day? (b) What would be the runoff volume if the rainfall in the past five days were 35 mm? Please express both answers in  $m^3$  units only.

**[7 M]**

b. Estimate  $CN_1$ ,  $CN_2$  and  $CN_3$  for a catchment with following land use.

**[3 M]**

Land use	Soil group C (%)	Soil group D (%)	Total % area
Cultivated land (Paddy)	30	45	75
Scrub forest	6	4	10
Waste land	9	6	15

**Q.3. There is an isolated 3-h storm which occurred over a basin in the following fashion:**

**[10 M]**

% of catchment area	Phi index (cm/h)	Rainfall (cm)		
		1 <sup>st</sup> hour	2 <sup>nd</sup> hour	3 <sup>rd</sup> hour
20	1.00	0.8	2.3	1.5
30	0.75	0.7	2.1	1.0
50	0.50	1.0	2.5	0.8

Estimate the runoff from the catchment due to the storm. Express your answer in depth (cm) units only.

**Q.4. Write Horton's equation for determining the infiltration and mention the meaning of each parameter in the equation. Mention the names of any two other equations used for determining infiltration. Table below shows the infiltration data obtained using double ring infiltrometer. Determine the best values of the parameters of Horton's infiltration capacity equation. All answers concerning infiltration capacities should be expressed in cm/h only. Ignore any observational errors while plotting the graph. Take  $f_c = 1.5$  cm/h** **[10 M]**

# F321 June 2014 Question Paper

**Mark Steyvers**



**F321 June 2014 Question Paper:**

Recognizing the showing off ways to get this ebook **F321 June 2014 Question Paper** is additionally useful. You have remained in right site to start getting this info. acquire the F321 June 2014 Question Paper link that we give here and check out the link.

You could purchase guide F321 June 2014 Question Paper or acquire it as soon as feasible. You could speedily download this F321 June 2014 Question Paper after getting deal. So, afterward you require the book swiftly, you can straight acquire it. Its therefore unquestionably easy and as a result fats, isnt it? You have to favor to in this impression

[https://media.cfan.org/files/virtual-library/default.aspx/Language\\_Report\\_Card\\_Comments\\_For\\_Grade\\_1.pdf](https://media.cfan.org/files/virtual-library/default.aspx/Language_Report_Card_Comments_For_Grade_1.pdf)

## **Table of Contents F321 June 2014 Question Paper**

1. Understanding the eBook F321 June 2014 Question Paper
  - The Rise of Digital Reading F321 June 2014 Question Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying F321 June 2014 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 F321 June 2014 Question Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from F321 June 2014 Question Paper
  - Personalized Recommendations
  - F321 June 2014 Question Paper User Reviews and Ratings
  - F321 June 2014 Question Paper and Bestseller Lists
5. Accessing F321 June 2014 Question Paper Free and Paid eBooks

- F321 June 2014 Question Paper Public Domain eBooks
  - F321 June 2014 Question Paper eBook Subscription Services
  - F321 June 2014 Question Paper Budget-Friendly Options
6. Navigating F321 June 2014 Question Paper eBook Formats
    - ePub, PDF, MOBI, and More
    - F321 June 2014 Question Paper Compatibility with Devices
    - F321 June 2014 Question Paper Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of F321 June 2014 Question Paper
    - Highlighting and Note-Taking F321 June 2014 Question Paper
    - Interactive Elements F321 June 2014 Question Paper
  8. Staying Engaged with F321 June 2014 Question Paper
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers F321 June 2014 Question Paper
  9. Balancing eBooks and Physical Books F321 June 2014 Question Paper
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection F321 June 2014 Question Paper
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine F321 June 2014 Question Paper
    - Setting Reading Goals F321 June 2014 Question Paper
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of F321 June 2014 Question Paper
    - Fact-Checking eBook Content of F321 June 2014 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

### **F321 June 2014 Question Paper Introduction**

In the digital age, access to information has become easier than ever before. The ability to download F321 June 2014 Question Paper has revolutionized the way we consume written content. Whether you are a student looking for course material, an avid reader searching for your next favorite book, or a professional seeking research papers, the option to download F321 June 2014 Question Paper has opened up a world of possibilities. Downloading F321 June 2014 Question Paper provides numerous advantages over physical copies of books and documents. Firstly, it is incredibly convenient. Gone are the days of carrying around heavy textbooks or bulky folders filled with papers. With the click of a button, you can gain immediate access to valuable resources on any device. This convenience allows for efficient studying, researching, and reading on the go. Moreover, the cost-effective nature of downloading F321 June 2014 Question Paper has democratized knowledge. Traditional books and academic journals can be expensive, making it difficult for individuals with limited financial resources to access information. By offering free PDF downloads, publishers and authors are enabling a wider audience to benefit from their work. This inclusivity promotes equal opportunities for learning and personal growth. There are numerous websites and platforms where individuals can download F321 June 2014 Question Paper. These websites range from academic databases offering research papers and journals to online libraries with an expansive collection of books from various genres. Many authors and publishers also upload their work to specific websites, granting readers access to their content without any charge. These platforms not only provide access to existing literature but also serve as an excellent platform for undiscovered authors to share their work with the world. However, it is essential to be cautious while downloading F321 June 2014 Question Paper. Some websites may offer pirated or illegally obtained copies of copyrighted material. Engaging in such activities not only violates copyright laws but also undermines the efforts of authors, publishers, and researchers. To ensure ethical downloading, it is advisable to utilize reputable websites that prioritize the legal distribution of content. When downloading F321 June 2014 Question Paper, users should also consider the potential security risks associated with online platforms. Malicious actors may exploit vulnerabilities in unprotected websites to distribute malware or steal personal information. To protect themselves, individuals should ensure their devices have reliable antivirus software installed and validate the legitimacy of the websites they are downloading from. In conclusion, the ability to download F321 June 2014 Question Paper has transformed the way we access information. With the convenience, cost-

effectiveness, and accessibility it offers, free PDF downloads have become a popular choice for students, researchers, and book lovers worldwide. However, it is crucial to engage in ethical downloading practices and prioritize personal security when utilizing online platforms. By doing so, individuals can make the most of the vast array of free PDF resources available and embark on a journey of continuous learning and intellectual growth.

### **FAQs About F321 June 2014 Question Paper 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. F321 June 2014 Question Paper is one of the best book in our library for free trial. We provide copy of F321 June 2014 Question Paper in digital format, so the resources that you find are reliable. There are also many Ebooks of related with F321 June 2014 Question Paper. Where to download F321 June 2014 Question Paper online for free? Are you looking for F321 June 2014 Question Paper PDF? This is definitely going to save you time and cash in something you should think about.

### **Find F321 June 2014 Question Paper :**

[language report card comments for grade 1](#)

**lancer 2015 shop manual**

*land rover pto manual*

~~land rover 200tdi engine manual~~

~~land rover discovery series 2 workshop manual~~

*largo winch tome lheacuteritier*

**lamour est en attente**

[lantech q300 manual](#)

[land rover offroad driving 2006 user guide](#)

[land rover manual book](#)

[land rover defender v8 manual](#)

[l'apprentissage implicite du langage ouvrage de reacutefeacuterence sur la psycholinguistique](#)

[landscape safety manual](#)

**land rover d2 workshop service repair manual**

[lapd employee selection manual](#)

### **F321 June 2014 Question Paper :**

Slow Fire: The Beginner's Guide to Barbecue BBQ, brings decades of expertise as a barbecue master, providing indispensable wisdom alongside 68 of the best recipes he has encountered in his long and wide- ... Slow Fire: The Beginner's Guide to Barbecue Great barbecue is as simple as meat, fire, smoke, and time. This ode to authentic meaty goodness gives barbecue beginners an essential guide to the tools, ... Slow Fire: The Beginner's Guide to Barbecue by Ray Lampe Great barbecue is as simple as meat, fire, smoke, and time. This ode to authentic meaty goodness gives barbecue beginners an essential guide to the tools, ... Slow Fire: The Beginner's Guide to... book by Ray Lampe Great barbecue is as simple as meat, fire, smoke, and time. This ode to authentic meaty goodness gives barbecue beginners an essential guide to the tools, ... s Guide to Lip-Smacking Barbecue by Lampe, Ray Dr Bbq ... Slow Fire: The Beginner's Guide to Lip-Smacking Barbecue by Lampe, Ray Dr Bbq ; Item Number. 195497999679 ; Binding. Hardcover ; Weight. 1 lbs ; Accurate ... The Beginner's Guide to Lip-Smacking Barbecue by Lampe, Ray ... Slow Fire: The Beginner's Guide to Lip-Smacking Barbecue by Lampe, Ray Dr Bbq ; Binding. Hardcover ; Weight. 1 lbs ; Product Group. Book ; Accurate description. 4.9. Slow Fire The Beginners Guide to Lip Smacking Barbecue Apr 11, 2012 — Slow Fire The Beginners Guide to Lip Smacking Barbecue by Ray Lampe available in Hardcover on Powells.com, also read synopsis and reviews. Slow Fire: The Beginner's Guide to Lip-Smacking Barbecue [O ... Slow Fire: The Beginner's Guide to Lip-Smacking Barbecue [O#COOKBOOKS] ... NOTE: This is an e-book. After making a payment, please provide your email address in ... The Beginner's Guide to Lip-Smacking Barbecue (Hardcover) Great barbecue is as simple as meat, fire, smoke, and time. This ode to authentic meaty goodness gives barbecue beginners an essential guide to the tools, ... Slow Fire: The Beginner's Guide to Barbecue - Catalog Slow Fire: The Beginner's Guide to Barbecue (eBook) ; Author. Ray Lampe ; Published. Chronicle Books LLC, 2012. ; Status. Available Online. Hesi Rn Exit Exam Test Bank 2014 Pdf Hesi Rn Exit Exam Test Bank 2014 Pdf. INTRODUCTION Hesi Rn Exit Exam Test Bank 2014 Pdf .pdf. HESI RN EXIT EXAM (V1V7) INET ACTUAL TEST BANK ... HESI RN EXIT EXAM (V1V7) INET ACTUAL TEST BANK GOOD

LUCK!. ; 2022/2023 RN HESI EXIT EXAM - Version 2 (V2) All 160 Qs &As Included - Guaranteed Pass A+!!! · \$27.45 ... Get Elsevier Exit Hesi Test Bank Complete Elsevier Exit Hesi Test Bank online with US Legal Forms. Easily fill out PDF blank, edit, and sign them. Save or instantly send your ready ... HESI Exit Exam The HESI Exit Exams are designed to test a student's understanding of the entire Nursing curriculum. The HESI RN Exit Exam contains 150 questions. The HESI ... I need help for Hesi exit exam Oct 23, 2014 — I took the hesi exit exam last week and got 874 and our passing score is 900 and above, right now I am fricking out. i dont know what to ... HESI Exit Exam RN (updated )- Test Bank Jan 21, 2023 — What is the best follow-up action by the nurse? • Review with the client the need to avoid foods that are rich in milk a... [Show more]. Is this a Scam? - HESI Entrance, Exit Exam Help Oct 13, 2014 — Specializes in Psychiatric RN. Oct 15, 2014. I didn't pass the first time but I was damn close (840). For the first exit exam, I didn't do ... Do you have the 2023 Fundamentals Hesi Exit Exam ... Apr 6, 2023 — Nursing students should use the 2023 Fundamentals HESI Exit Exam Version 1 (V1) Test Bank to help them prepare for the HESI Exit Exam. All of ... HESI Exit Exam validity and nursing program policies by M Shah · 2022 · Cited by 10 — Background: The HESI® Exit Exam (E2) has been used to assess student readiness for the NCLEX-RN® exami- nation for over two decades. Purpose: In this study, ... hesi rn exit exam test bank - Cosmo prof alberta - Jul 7, 2014 — Hesi Exit Exam Test Banks, 2014. #1 Test preparation tool. Pass first time or retry. Real deal. Hesi Test Bank: 2013 HESI Exit Exam for RN. Digital Signal Processing Solution 2e li tan Instructor's Guide to Accompany. Digital Signal Processing: Fundamentals and Applications. Li Tan. Jean Jiang. Chapter 2. 2. 2 1500 2 1000. 2 1500 2 1500. 5 cos ... Solutions Digital Signal Processing 2e Li Tan | PDF Feb 21, 2017 — Digital Signal Processing: Fundamentals and Applications. Li Tan Jean Jiang Instructors Guide to Accompany to Digital Signal Processing, ... 340671291-Solutions-Digital-Signal-Processing-2e-Li-Tan. ... Instructor's Guide to Accompany to Digital Signal Processing, Fundamentals and Applications, Second Edition 6 () Yff kHz 0.5 0.5 3 3 Aliasing noise c. The ... Digital signal processing second edition solution manual ... Sep 2, 2022 — Digital signal processing second edition solution manual by Li Tan and Jean Jiang. Digital Signal Processing Solution Manual Author: Jean Jiang, Li Tan. 15 solutions available. Frequently asked questions ... How is Chegg Study better than a printed Digital Signal Processing student ... Fundamentals and Applications (3rd Ed., Li Tan, Jean Jiang) Mar 15, 2020 — Solution Manual Digital Signal Processing : Fundamentals and Applications (3rd Ed., Li Tan, Jean Jiang). 40 views. Skip to first unread ... [Li Tan, Jean Jiang] Digital Signal Processing Fu(BookZZ. ... Sketch the spectrum for the sampled signal from 0 to 20 kHz. 2.2 Signal Reconstruction 21. Solution: a. Since the analog signal is sinusoid with a peak value of ... Digital Signal Processing: Fundamentals and Applications Li Tan Ph.D. Electrical Engineering University of New Mexico and 1 more. Li ... Most books I need to consult a solution manual or chegg for process and ...