

GBGS SCHEME

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HC5303

Third Semester B.E./B.Tech. Degree Examination, Dec.2023/Jan.2024

Operating Systems

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.

2. *Ad* : Advertis, *E* : Employee's E-mail, *C* : Customer's customers.

Module - 1				M	L	C																			
Q.1	a.	Define Operating System. Explain dual mode of OS with a neat diagram.	5	L1, L2	CO1																				
	b.	Distinguish between the following terms: i) Multiprogramming and Multitasking ii) Multiprocessor system and clustered system.	10	L2	CO1																				
	c.	With a neat diagram, explain the concept the concept of VM-WARE architecture.	5	L1, L2	CO1																				
OR																									
Q.2	a.	Explain the operating system services with respect to programs and users.	5	L2	CO1																				
	b.	List and explain the different computing environments.	5	L1, L2	CO1																				
	c.	What are system calls? List and explain the different types of system calls.	10	L1, L2	CO1																				
Module - 2																									
Q.3	a.	Define process. Explain different states of a process with state diagram.	8	L1, L2	CO1																				
	b.	What is IPC? Explain direct and indirect communication with respect to message passing.	8	L1, L2	CO2																				
	c.	Explain context switching.	4	L2	CO2																				
OR																									
Q.4	a.	What is multi-threaded process? Explain the four benefits of multithreaded programming.	6	L2	CO2																				
	b.	Calculate the average waiting time and average turn around time by drawing the Gantt-chart using FCFS, SJF-non preemptive, SRTF, RR(q = 2ms) and priority algorithms.	14	L3	CO2																				
		<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Process</th> <th>Arrival time</th> <th>Burst time</th> <th>Priority</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>0</td> <td>9</td> <td>3</td> </tr> <tr> <td>P2</td> <td>1</td> <td>4</td> <td>2</td> </tr> <tr> <td>P3</td> <td>2</td> <td>9</td> <td>1</td> </tr> <tr> <td>P4</td> <td>3</td> <td>5</td> <td>4</td> </tr> </tbody> </table>	Process	Arrival time	Burst time	Priority	P1	0	9	3	P2	1	4	2	P3	2	9	1	P4	3	5	4			
Process	Arrival time	Burst time	Priority																						
P1	0	9	3																						
P2	1	4	2																						
P3	2	9	1																						
P4	3	5	4																						
Module - 3																									
Q.5	a.	What is critical section? What are the requirements for the solution to critical section problem? Explain Peterson's solution.	8	L1, L2	CO3																				
	b.	Explain Reader's-Writer's problem using semaphores.	12	L2	CO3																				

1 of 2

Sial Question Paper Jan 2015

Thinking Kids



Sial Question Paper Jan 2015:

Maritime Security Complexes of the Indo-Pacific Region Dr Vijay Sakhuja, Prof (Dr) W Lawrence S

Prabhakar, 2023-03-06 This book seeks to provide a net assessment of regional challenges and opportunities in this study of the Indo Pacific region's security dynamics viewed through the maritime variant of the Regional Security Complex Theory. The objective of this volume is to ascertain the regional security dynamics and assess securitization as a driving force. It infers the scope of traditional, non-traditional, and transnational security issues and their regional impact with a specific focus on the maritime perspectives of regional security dynamics and also envisages the potential interplay of these factors as they continue to influence and shape future discourse. Restraining Great Powers T. V. Paul, 2018-09-18 How subtler forms of balance of power politics can help states achieve their goals against aggressive powers without wars or arms races. At the end of the Cold War, the United States emerged as the world's most powerful state and then used that power to initiate wars against smaller countries in the Middle East and South Asia. According to balance of power theory, the bedrock of realism in international relations, other states should have joined together militarily to counterbalance the United States' rising power. Yet they did not. Nor have they united to oppose Chinese aggression in the South China Sea or Russian offensives along its western border. This does not mean balance of power politics is dead, argues renowned international relations scholar T. V. Paul. Instead, it has taken a different form. Rather than employ familiar strategies such as active military alliances and arms buildups, leading powers have engaged in soft balancing, which seeks to restrain threatening powers through the use of international institutions, informal alignments, and economic sanctions. Paul places the evolution of balancing behavior in historical perspective from the post-Napoleonic era to today's globalized world. This book offers an illuminating examination of how subtler forms of balance of power politics can help states achieve their goals against aggressive powers without wars or arms races.

17 Year-wise CTET Paper 2 (Mathematics & Science) Previous Year Solved Papers (2023 - 2011) - Class 6 - 8 Teachers - 5th English Edition | Central Teacher Eligibility Test PYQs Question Bank, The updated 5th edition of the book 17 YEAR WISE CTET Paper 2 Mathematics Science Solved Papers 2023 2011 Class 6 8 English Edition contains detailed Solutions to the Past 17 Solved Papers of the CTET exam from 2011 to 2023. The past 17 CTET Solved papers included are June 2011, Jan Nov 2012, July 2013, Feb Sep 2014, Feb Sep 2015, Feb Sep 2016, Papers Dec 2018, July Dec 2019, Dec 2020, Dec Jan 2021, Dec Jan 2022, Aug 2023. The detailed solutions are provided immediately after each test. Solutions are provided for each question. The languages covered in the tests are English 1st language and Hindi 2nd language. The book is 100% useful for UPTET, HTET, MPTET, CGTET, UKTET, HPTET, BTET, PTET, and other STET Exams.

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Advances in Web-Based Learning -- ICWL 2015 Frederick W.B. Li,Ralf Klammer,Mart Laanpere,Jun Zhang,Baltasar Fernandez Manjon,Rynson W.H. Lau,2015-10-12 This book constitutes the refereed proceedings of the 14th International Conference on Web Based Learning ICWL 2015 held in Guangzhou China in November 2015 The 18 revised full papers presented together with 2 invited papers and 7 short papers were carefully reviewed and selected from about 79 submissions The papers are organized in topical sections on collaborative and peer learning e learning platform and tools design model and framework of e learning systems intelligent tutoring and tools pedagogical issues personalized and adaptive learning and Web 2.0 and social learning environments

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Congress,1832 *The Milne Papers* Professor John Beeler,2015-08-28 Centred upon a man who never participated in combat operations during his sixty year naval career this volume depicts the routine peacetime operations of the mid Victorian Royal Navy The documents that comprise this volume deal with topics of interest to scholars of international relations Anglo American affairs the U S Civil War and the slave trade Other aspects addressed include naval medicine steam era logistics and other elements of the Royal Navy s modernization pertaining to its materiel personnel and administration

Letters and Papers, Foreign and Domestic, of the Reign of Henry VIII J. S. Brewer,2015-03-19 Published between 1862 and 1932 and reissued here in multiple parts this monumental calendar of documents remains an essential starting point for the serious study of Tudor history An experienced editor of historical texts John Sherren Brewer 1809 79 had no

prior training in the history of the period yet he brought to the project the necessary industriousness and an impeccable command of Latin Four volumes appeared before his death whereupon James Gairdner 1828 1912 his former assistant took up the editorial reins Continuing Brewer's method of ordering chronologically all available documents from 1509 to 1547 and reproducing some passages while paraphrasing or omitting others Gairdner brought the project to its conclusion aided himself by R H Brodie 1859 1943 in preparing the later volumes Part 1 of Volume 3 1867 covers the period from January 1519 to June 1521 *Complete Book of Grade 3 Thinking Kids*, 2015-01-05 Reinforce your third grader's essential skills with the Complete Book of Grade 3 With the colorful lessons in this workbook your child will strengthen skills that include reading comprehension sentence types contractions and the order of operations The Complete Book series provides a dynamic way for students in prekindergarten to grade 4 to master essential skills Each vivid workbook guides students through a variety of engaging activities in phonics reading comprehension math and writing Challenging concepts are presented in simple language with easy to understand examples while stickers and full color illustrations capture students interest The Complete Book series is a thorough comprehensive guide to grade level success **Reports from a Scholar's Life** Tryggve N. D. Mettinger, 2015-11-16 Tryggve N D Mettinger emeritus professor of Hebrew Bible at Lund University has long been one of the best known and most admired voices in biblical studies His eight English language books and countless articles published in a career spanning over four decades have changed the field in many ways Mettinger is renowned not as an iconoclast but as one working within mainstream scholarship who is nevertheless willing to challenge cherished ideas and who takes nothing for granted For example in one of his earliest works A Farewell to the Servant Songs published in its entirety in this volume Mettinger with his trademark brevity and articulation drew attention to the shaky ground on which this consensus idea was built and called fellow scholars to reexamine this notion taken for granted by so many for so long For Mettinger the Bible is sacred literature but in biblical interpretation there are no sacred cows Reports from a Scholar's Life Select Papers on the Hebrew Bible collects 16 studies one short monograph twelve articles and three reviews originally published between 1977 and 2008 into one volume along with a new reflective essay The papers included provide not only Mettinger's most groundbreaking publications but also glimpses into several of the areas of study that occupied the author Mettinger's work ranged far and wide in the Hebrew Bible and here one finds examples of his contributions to the study of among other things the notions of God the Gottesbild in ancient Israel the theology of YHWH Sabaoth in the monarchic period the development of the story of David in 1 2 Samuel aniconism in ancient Israel the motif of the dying and rising god in the ancient world narrative criticism of the book of Job the development and structure of Second Isaiah The entire volume is opened by the titular essay published for the first time here Report from a Scholar's Life This article was originally delivered as the farewell address upon his retirement from Lund University and it provides a retrospective on his entire life and career The Papers of Thomas Jefferson, Volume 41 Thomas Jefferson, 2015-01-25 The Louisiana Purchase dominates the months covered in this

volume Jefferson departs for Monticello to enjoy a needed respite after the busy three and a half months he has just spent in the nation's capital. Shortly before leaving Washington he has a last meeting with his cabinet after which he issues a proclamation to reconvene Congress on 17 October three weeks early. It is the great and weighty business of the French government's stunning offer to transfer all of the Louisiana Territory to the United States that necessitates this important gathering. The event brings Jefferson enthusiastic congratulations from his friends and fellow Republicans. With Jefferson's great success however comes the reality of getting the agreement with France approved and implemented. The boundaries of the territory ceded are not even clear. In private letters to his trusted advisers Jefferson discusses the proper course of action. Should both houses of Congress be called to consider the French offer? Is it prudent to make the substance of a treaty public? And perhaps most vexing does this executive action require an amendment to the Constitution? Some Federalists criticize the plan but an expansion of the nation's territory proponents argue will raise America's stature in the eyes of the world. With the widening of the country's borders Jefferson's project to send an exploratory party westward seems even timelier. William Clark accepts Meriwether Lewis's invitation to join the expedition and on the last day of August Lewis begins his journey down the Ohio River the building of his boat finally complete.

Sonic Rupture Jordan Lacey, 2017-12-28 *Sonic Rupture* applies a practitioner-led approach to urban soundscape design which foregrounds the importance of creative encounters in global cities. This presents an alternative to those urban soundscape design approaches concerned with managing the negative health impacts of noise. Instead urban noise is considered to be a creative material and cultural expression that can be reshaped with citywide networks of sonic installations. By applying affect theory the urban is imagined as an unfolding of the Affective Earth and noise as its homogenous and homogenizing voice. It is argued that noise is an expressive material with which sonic practitioners can interface to increase the creative possibilities of urban life. At the heart of this argument is the question of relationships how do we augment and diversify those interconnections that weave together the imaginative life and the expressions of the land. The book details seven sound installations completed by the author as part of a creative practice research process in which the sonic rupture model was discovered. The sonic rupture model which aims to diversify human experiences and urban environments encapsulates five soundscape design approaches and ten practitioner intentions. Multiple works of international practitioners are explored in relation to the discussed approaches. *Sonic Rupture* provides the domains of sound art music creative practice urban design architecture and environmental philosophy with a unique perspective for understanding those affective forces which shape urban life. The book also provides a range of practical and conceptual tools for urban soundscape design that can be applied by the sonic practitioner.

Honoured By Strangers Roy Bainton, 2015-01-26 For many years the story of Cromie has been overshadowed by histories of the greater tragedy found on the Western Front in World War I. Yet like T. E. Lawrence Cromie's individual exploits reveal a classic British hero noble, tenacious and beloved by all who served under him. Churchill called him a man of exceptional gifts. Cromie became a

submarine commander at the remarkably young age of 24 By this time he had already seen action in the Boxer Rebellion received the China Medal and had been mentioned in despatches His compassion and care for his men gained him the Royal Humane Society s Bronze Medal when he almost lost his life attempting to save a drowning sailor In 1915 he was chosen to head a flotilla of submarines to attack German shipping in the Baltic Sea Here he achieved great success despite the hazardous nature of the climate and the threat of the German navy He was decorated three times by the Czar of Russia and received the DSO During his three years in the Baltic he became fluent in Russian He only survived the difficulties of the Bolshevik Revolution in 1917 because of his consummate skills as a mediator and diplomat His murder in the British Embassy in 1918 at the age of 37 remained a tragic mystery for many years until now Bainton s extensive research has revealed why Cromie has previously been omitted from official histories of that difficult period The circumstances surrounding his murder exposed facts about his complex character his relationship with the Bolsheviks and the British Establishment and importantly the story uncovers the duplicity of the allies as they struggled to formulate a reaction to the tidal wave of the Russian Revolution

Tunisia's International Relations since the 'Arab Spring' Tasnim Abderrahim, Laura-Theresa Krüger, Salma Besbes, Katharina McLarren, 2017-09-22 When popular protests started in Tunisia in late 2010 few anticipated the implications these events would have for the entire Arab region In the following years this region witnessed deep changes increased divisions and even failing states Meanwhile Tunisia managed to assert itself as a new democracy How did this small country manage its democratic transition within such a short period And what implications has this had for its foreign policy and its role in international politics This book assesses Tunisia s transition inside and out from four angles Tunisian polity and politics which provide the framework for its foreign policy since the Arab Spring bilateral relations before and after the Arab Spring Tunisia s activism in international organisations as well as their presence in Tunisia and transnational issues in Tunisia Drawing on a broad range of primary sources including authors own interview material conducted with politicians and representatives of civil society and international NGOs involved in the transition process the book shows that since 2011 Tunisia has not only developed fundamentally at the domestic level but also at the level of external relations New and old alliances a broadening of relations and new activism of civil society and of Tunisia in international organisations certify that Tunisia has the potential to play an increasingly important role regionally as well as internationally Providing an encompassing picture of Tunisia s changed role and successful transition from an autocracy to a democracy the book allows students and scholars in the field to understand the last country standing better a country that both the scientific community and the political scene should not underestimate for the promises it holds

Study Guide for CTET Paper 2 Hindi (Class 6 - 8 Social Studies/ Social Science teachers) 4th Edition Disha Experts, 2019-04-01 Study Guide for CTET Paper 2 Hindi edition Class 6 8 Social Studies Social Science teachers is a flawless book especially prepared for the CTET exam being conducted by the CBSE Board updated with the solved papers till 2018 The languages covered in the book are Hindi 1st language and

English 2nd language The book provides separate sections for Child Development Pedagogy English Language Hindi Language and Social Studies Social Science Each section has been divided into chapters For each chapter an exhaustive theory has been provided which covers the complete syllabus as prescribed by the CBSE NCERT NCF 2005 This is followed by 2 sets of exercise The exercise 1 contains a set of MCQs from the PREVIOUS YEAR Question Papers of CTET and various STET s The exercise 2 TEST YOURSELF provides carefully selected MCQs for practice The book is a must for all the candidates appearing in the Paper 2 Social Studies stream of the CTET and all State TETs The book is also useful for other State TETs UPTET Rajasthan TET Haryana TET Bihar TET Uttarakhand TET Punjab TET Tamil Nadu TET etc

Embracing the Track of Phrase: An Mental Symphony within **Sial Question Paper Jan 2015**

In a world used by monitors and the ceaseless chatter of quick transmission, the melodic splendor and psychological symphony produced by the published word frequently disappear into the background, eclipsed by the persistent noise and interruptions that permeate our lives. But, situated within the pages of **Sial Question Paper Jan 2015** an enchanting fictional value brimming with natural feelings, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, this interesting masterpiece conducts visitors on a mental trip, well unraveling the concealed melodies and profound affect resonating within each cautiously constructed phrase. Within the depths of this emotional assessment, we will investigate the book is key harmonies, analyze their enthralling publishing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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Table of Contents Sial Question Paper Jan 2015

1. Understanding the eBook Sial Question Paper Jan 2015
 - The Rise of Digital Reading Sial Question Paper Jan 2015
 - Advantages of eBooks Over Traditional Books
2. Identifying Sial Question Paper Jan 2015
 - 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 Sial Question Paper Jan 2015
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sial Question Paper Jan 2015

- Personalized Recommendations
- Sial Question Paper Jan 2015 User Reviews and Ratings
- Sial Question Paper Jan 2015 and Bestseller Lists
- 5. Accessing Sial Question Paper Jan 2015 Free and Paid eBooks
 - Sial Question Paper Jan 2015 Public Domain eBooks
 - Sial Question Paper Jan 2015 eBook Subscription Services
 - Sial Question Paper Jan 2015 Budget-Friendly Options
- 6. Navigating Sial Question Paper Jan 2015 eBook Formats
 - ePub, PDF, MOBI, and More
 - Sial Question Paper Jan 2015 Compatibility with Devices
 - Sial Question Paper Jan 2015 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sial Question Paper Jan 2015
 - Highlighting and Note-Taking Sial Question Paper Jan 2015
 - Interactive Elements Sial Question Paper Jan 2015
- 8. Staying Engaged with Sial Question Paper Jan 2015
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sial Question Paper Jan 2015
- 9. Balancing eBooks and Physical Books Sial Question Paper Jan 2015
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sial Question Paper Jan 2015
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Sial Question Paper Jan 2015
 - Setting Reading Goals Sial Question Paper Jan 2015
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sial Question Paper Jan 2015

- Fact-Checking eBook Content of Sial Question Paper Jan 2015
 - 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

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