Paper	· Code: CCCS517	<b>Total Credit:</b> 4
Title	Title of Paper: Internet Programming With Java	
		70
		Time: 3 Hrs
Unit	Description	Weighting
I	Introduction to OOP, Features and Evolution of JAVA, Byte code and JVM, Applications, Applets, Classes, Objects, Encapsulation, Garbage Collection, C++ v/s. JAVA, Data types, Variables, Operators, Associatively and Precedence, Expressions, Type Conversion, Comments, Arrays, Keywords, Methods, Arguments and Return Values, Static v/s. Instance Members, Command-Line Arguments, Escape sequences. Control Structures (if, switchcase), Loops(for, while, dowhile), Constructors.	20%
II	Access Specifiers, Subclasses, Inheritance, Method Overriding, Interfaces and Packages, Access Control and Packages, Exception Handling, Custom Exceptions.	20%
III	Java Class Libraries, The Integer Class, Random Class, Date Class, Calendar and Gregorian Calendar Classes, Vector Class and Enumeration Interface, Stack Class, Hashtable Class, StringTokenizer Class, Files and Directories, Character Streams, Buffered Character Streams, The PrintWriter Class, Byte Streams, Random Access Files, The StreamTokenizer Class Networking Internet Addresses, ServerSockets and Sockets, Diagram Sockets and Packets, Uniform Resource Locators	20%
IV	Introduction to visual programming in JAVA with AWT and Swing. GUI Components. Event Handling, Applets and the Life Cycle. The Applet Class, The Graphics Class, Colors, Text, Applet Dimensions	20%
V	Database Drivers, jdbc-odbc bridge, connection, Performing the Basis SQL commands, Resultset Interface, Prepared Statement, Mapping SQL types to java, Overview of JSP, Multithreaded Programming, Synchronization, Deadlock, Thread Communication.	20%
Basic	Text & Reference Books :-	
1.	Balagurusamy, Programming with Java: A printer-Second Edition, Tata McG	raw-Hill,2000
2.	Naughton & Schildt, JAVA: The Complete Reference, Tata McGraw Hill.	

Paper	Total Credit: 4 Total Marks: 70		
Title	of Paper: Internet Programming with Java		Time: 3 Hrs
Unit	Description		Total Marks
I	Q.1 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.1 (B) Medium / Long Questions. (With Internal Option)	08	

08

06

08

06

08

06

08

14

14

14

Q.2 (B) Medium / Long Questions. (With Internal Option)

Q.3 (A) Short / Medium Questions (With Internal Option)

Q.3 (B) Medium / Long Questions. (With Internal Option)

Q.4 (A) Short / Medium Questions (With Internal Option)

Q.4 (B) Program based on Java. (With Internal Option)

Q.5 (A) Short / Medium Questions (With Internal Option)

Q.5 (B) Program based on Java. (With Internal Option)

Ш

IV

V

Paper	· Code: CCCS518	Total Credit: 4
Title	of Paper: Computer Network – I	Total Marks:
		70
		<b>Time:</b> 3 Hrs
Unit	Description	Weighting
I	Introduction	
	LAN, MAN, WAN,	
	Types of networks [LAN, WAN, WLAN, MAN, SAN, PAN, EPN & VPN],	20%
	Types of transmission [Simplex, Half Duplex, Full Duplex],	
	PSTN, Switching techniques	
II	The Application Layer - I	20%
	HTTP, HTTPS, TELNET, DNS, FTP, DHCP, IMAP	
III	The Application Layer – II	20%
	POP, LDAP, RIP, SMTP, SSH, TLS & SSL	
IV	The Physical Layer - I	
	Guided Transmission Media [Twisted Pair, Fiber Optics, Coaxial],	20%
	Cabling [cross, straight],	
	IEEE 802.3 Ethernet standard, RJ45 ,RJ11	
V	The Physical Layer - II	
	Router, Switch, Hub,	
	Analog Modulation,	20%
	Digital modulation: Modem - phase shift keying - bit rate - boud rate	
	, QAM (Quadrature amplitude modulation)	
	Text & Reference Books :-	
1.	Computer Networks 4th Edition - Andrew Tanenbaum	
2.	Computer Networking: A Top-Down Approach Featuring the In	nternet By James
	F.Kurose , Keith W.Ross	
3.	Data Communication & Networking 4th Edition By Behrouz A.Forouz	an

Paper Code: CCCS518  Title of Paper: Computer Network – I	Total Credit: 4 Total Marks: 70 Time: 3 Hrs

Unit	Description		Total Marks
I	Q.1 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.1 (B) Medium / Long Questions. (With Internal Option)	08	
II	Q.2 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.2 (B) Medium / Long Questions. (With Internal Option)	08	
III	Q.3 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.3 (B) Medium / Long Questions. (With Internal Option)	08	
IV	Q.4 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.4 (B) Medium / Long Questions. (With Internal Option)	08	
V	Q.5 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.5 (B) Medium / Long Questions. (With Internal Option)	08	

Paper Code: CCCS519	Total Credit :
Title of Paper: Practical Based on CCCS517	04
	Total Marks :
	70
	Time: 3 Hrs

- 1. Write a Simple Application to print any trigonometric / mathematical formula.
- 2. Find the greatest of numbers.
- 3. Write a program to display a table in the format  $n \times i = m$
- 4. Create a program using switch case statement to identify the day of the week.
- 5. Write a program to find greatest and smallest element of an array.
- 6. Write a program to sort the array using bubble sort.
- 7. Write a program to accept string as a command line argument and display the string in reverse order.
- 8. Write a small program that accepts an argument from the user and cheeks it for the palindrome.
- Write a program to check the format of email address given by the user as command line argument.
- 10. Create a class, which has a method to calculate the area of a triangle and use it.
- 11. Create a class with two methods for calculating area and parameter of triangle. Create another class and initialize the instance of the former class and calculate the area and perimeter.
- 12. Create a class with a method, which accept an object of the same class as a parameter and calculates the addition of two matrices.
- 13. Create a class quadrilateral and create two methods each for calculating area and perimeter of the quadrilateral with one and two parameters respectively.
- 14. Create a class with a constructor, which initializes all the class level variable and display the values of the variables.
- 15. Create a base class called vehicle which contains properties called color, wheels. Create a child class car and which has properties called model no and make. Use the object of the child class which will define the different properties of a car.
- 16. Create a method to calculate the area and perimeter of a circle. Extend the semicircle class child of circle class and override the method to calculate the area and perimeter of a semicircle (if possible use this and super keywords)
- 17. Create a class, which has two methods each of static and non-static nature. Try to use them in any class of your choice and enlist the different interfaces and packages.
- 18. Create an interface called arithmetic, which defines methods for sum, multiplication, division, subtraction, percentage and implement of them.
- 19. Create a package, which holds the class and an interface defined in the previous question and use them in your main method/class.
- 20. Create an abstract class and try to use if. Enlist the problems that come. Create an abstract class inherit it and implement the methods of the abstract class, e.g. People Student.
- 21. Create an inner class shape which has a method called pyramids to create a pyramid scheme. Use this method in the outer class.
- 22. Write a program to handle an exception using try and catch block (Zero division problem)
- 23. Define an exception "Not Found" that is thrown when a string is not equal to "India" write a program that uses this exception.
- 24. Write a program, which displays the use of finally. Explain how it is different or similar to catch.
- 25. Write a program, which shows use of array out of band exception.

_	e: CCCS519	Total Credit: 4 Total Marks: 70		
<b>Title of Paper:</b> Practical Based on CCCS517			<b>Time:</b> 3 Hrs	
Unit	Description		Total Marks	
I	Q.1 (A) Viva – Voce	20	70	
	Q.1 (B) Practical	50		

Paper Code: CCCS520	Total Credit :
Title of Paper: Practical Based on CCCS518 and elective courses	04
	Total Marks:
	70
	Time: 3 Hrs
Computer Network Practical List	
1. Telnet Connectivity	
2. Ftp Connections	
3. DHCP Connections	
4. SSH Connection	
5. POP & IMAP Connectivity Using Thunderbird	
6. Cabling [cross, straight]	
7. Router Configuration	
8. Switch Configuration	

Paper Code	Total Credit: 4 Total Marks: 70		
Title of Pape	Time: 3 Hrs		
Unit	Description		Total Marks
I	Q.1 (A) Viva – Voce	20	70
	Q.1 (B) Practical	50	

	Code: FCCS506	Total Credit: 4
Title o	of Paper: Soft Skills and Personality Development	Total Marks:
		70
		Time: 3 Hrs
77. 1.	D 1.1	***
Unit	Description  Letter describe the Self-library Living Provide t	Weighting
I	Introduction to Soft Skills and Hard Skills, Break the ice berg – FEAR, Self Development - Etiquette and Manners. The Self Concept:	
	Attitude, The process of attitude formation, positive attitude, How to	
	build a success attitude, You are the chief architecture of yourself.	
	Self Management Techniques. Believe in yourself: Self Image and	
	Self Esteem, Building Self Confidence, Environment we mix with,	
	How to build self image?.	
II	Meaning and definition of personality, Personal Planning and	
	Success Attitude: Prioritizing, Creating the master plan, Active	
	positive visualization and Spot analysis. Self Motivation and	
	Communication: Levels of motivation, power of irresistible	
	enthusiasm, etiquettes and manners in a group, public speaking,	
	Importance of listening and responding	
III	Motivation Skills & Personality Development, Goal Setting, Career	
	Planning, Resume Building, Psychometric Test, Priority Management	
	& Time Management, Positive Attitude and Self Confidence. Verbal	
	Communication includes Planning, Preparation Delivery, Feedback	
	and assessment of activities like: Public speaking, Group Discussion,	
	Oral Presentation skills, Perfect Interview, Listening and observation	
IV	skills, body language and use of Presentation aids.  Written communication that includes project proposals, brochures,	
1 1	newsletters, articles.	
	Etiquettes that include: etiquettes in social as well as office settings,	
	email etiquettes, telephone etiquettes. Improving Personal Memory,	
	study skills that include rapid reading, notes taking and creativity	
V	Problem Solving and Decision Making Skills, Perceptive,	
	Conceptual, Creative, Analytical and Decisive. Leadership as a	
	process: co-ordination while working in a team, Leadership styles,	
	Leader and Team player, Management of conflict, Profiles of great	
	and successful personalities, Role of career planning in personality	
	development, negotiation, Motivating.	
	Text & Reference Books :-	T. 41.
1.	Wallace: Personality Development 1st Edition, 2008 Cengage Learning	
2.	Succeed for your self -Richard Denny (3rd edition)- Ko www.vivagroupindia.com.	gan page India
3.	Www.vivagroupindia.com.  Unleashing Leadership – John Hoover & Angelo Valenti – Jaico publishin	g House
4.	Listening and Responding – Sandra D.Collins-Cengage Learning India.	g 110usc
5.	1,001 ways to inspire your organization, your team and your self – D	avid E. Rve- Jaico
J.	publishing house.	aria L. Ryc- Jaico
	Pacinimo House.	

Paper	Total Credit: 4 Total Marks: 70 Time: 3 Hrs		
Title of Paper: Soft Skills and Personality Development			
Unit	Description		Total Marks
Ι	Q.1 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.1 (B) Medium / Long Questions. (With Internal Option)	08	
	Q.2 (A) Answer the Following.	06	14

08

06

08

06

08

06

08

14

14

14

Q.2 (B) Medium / Long Questions. (With Internal Option)

Q.3 (A) Short / Medium Questions (With Internal Option)

Q.3 (B) Medium / Long Questions. (With Internal Option)

Q.4 (A) Short / Medium Questions (With Internal Option)

Q.4 (B) Medium / Long Questions. (With Internal Option)

Q.5 (A) Short / Medium Questions (With Internal Option)

Q.5 (B) Medium / Long Questions. (With Internal Option)

Ш

IV

V

Paper	r Code: CECS510	Total Credit: 4
Title	of Paper: Information Security	Total Marks:
		70
		<b>Time:</b> 3 Hrs
Unit	Description	Weighting
I	Introduction to computer security	10
	What Is Computer Security?	
	A Broader Definition of Security	
II	Security Policy	20
	Introduction, Corporate Policy, Information Security Policy,	
	Concepts, Classification of information, Personnel Security policy,	
	Ethics, Password Policy, General Software Policy, Networks,	
	Internet, Laptops and portable computers	
III	Computer and Network Policy	25
	System administration policy, Physical security, Access Control,	
	Logon Policy, Assurance, Accountability and Audit, Reliability of	
	Service, Network Policy Network / Distributed Systems Policy:	
	Dial-in access, Dial-out, Internet Firewall, Interfaces to other	
	networks	
IV	Incident Response Procedure, Software Development Policy, General	25
1 4	Guidelines, Production Guidelines, Business Continuity Planning,	23
	Enforcement, Physical Security, Buildings, Transport of Data,	
	Backups, Disks, Laptops / mobile computers, Printers, Computers,	
	Clean desk principle	
V	System Security(book no-2)	20
	<b>Intruders</b> : Intruders, Intruders detection, Password management.	
	Malicious Software: Viruses and Related Threats	
	<b>Firewalls:</b> Firewalls Design principle, established systems.	
Basic	Text & Reference Books :-	
1.	IT Security Cook Book(http://www.boran.com/security)	
2.	Cryptography and Network Security (2nd edition), William Stallings, l	Pearson

Paper Code: CCCS103  Title of Paper: Practical Based on CCCS101	Total Credit: 4 Total Marks: 70 Time: 3 Hrs

Unit	Description		Total Marks
I	Q.1 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.1 (B) Medium / Long Questions. (With Internal Option)	08	
II	Q.2 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.2 (B) Medium / Long Questions. (With Internal Option)	08	
III	Q.3 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.3 (B) Medium / Long Questions. (With Internal Option)	08	
IV	Q.4 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.4 (B) Medium / Long Questions. (With Internal Option)	08	
V	Q.5 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.5 (B) Medium / Long Questions. (With Internal Option)	08	

	Code: CECS511  of Paper: E-Commerce and M-Commerce	Total Credit: 4 Total Marks: 70 Time: 3 Hrs
Unit	Description	Weighting
I	E-Commerce	
	Introduction -The e-commerce environment - The e-commerce marketplace -Focus on portals, Location of trading in the marketplace - Commercial arrangement for transactions - Focus on auctions - Business models for e-commerce - Revenue models - Focus on internet start-up companies - the dot-com - E-commerce versus E-business.	20%
II	M-Commerce	
	Introduction – Infrastructure Of M– Commerce – Types Of Mobile Commerce Services – Technologies Of Wireless Business – Benefits And Limitations, Support, Mobile Marketing & Advertisement, Non–Internet Applications In M– Commerce –Wireless/Wired Commerce Comparisons	20%
III	M-Commerce – Technology	
	A Framework For The Study Of Mobile Commerce	
	NTT Docomo's I– Mode	
	Wireless Devices For Mobile Commerce Towards A Classification Framework For Mobile Location Based Services	
	Wireless Personal And Local Area Networks	20%
	The Impact Of Technology Advances On Strategy	
	Formulation In Mobile Communications Networks	
IV	M-Commerce – Theory and Application	
	The Ecology Of Mobile Commerce	
	The Wireless Application Protocol	
	Mobile Business Services Mobile Portal	
	Factors Influencing The Adoption Of Mobile Gaming Services	2007
	Mobile Data Technologies And Small Business Adoption And Diffusion	20%
	M-Commerce In The Automotive Industry	
	Location Based Services: Criteria For Adoption And Solution Deployment	
	The Role Of Mobile Advertising In Building A Brand M—Commerce Business Models	
V	Business to business M-Commerce	
•	Enterprise Enablement	
	Email And Messaging	
	Field Force Automation (Insurance, Real Estate, Maintenance, Healthcare)	
	Field Sales Support (Content Access, Inventory)	20%
	Asset Tracking And Maintenance/Management Remote IT Support	
	Customer Retention (B2C Services, Financial, Special Deals)	
	Warehouse Automation	
	Security	
-	Text & Reference Books :-	. =
1.	Dave Chaffey, "E-Business and E-Commerce Management", Thi	rd Edition, 2009.
	Pearson Education	
2	Brian E. Mennecke, Troy J. Strader, "Mobile Commerce: Technology,"	Theory and
2.	Applications", Idea Group Inc., IRM press, 2003.	incory and
3.	Paul May, "Mobile Commerce: Opportunities, Applications, and	Technologies of
٥.	Wireless	reciniologies Of
	Business" Cambridge University Press March 2001	
4.	Dr.Pandey, Saurabh Shukla E-commerce and Mobile commerce Techn	ologies , Sultan
	chand ,2011	

Paper Title	Total Credit: 4 Total Marks: 70 Time: 3 Hrs		
Unit	Description		Total Marks
Ι	Q.1 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.1 (B) Medium / Long Questions. (With Internal Option)	08	
II	Q.2 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.2 (B) Medium / Long Questions. (With Internal Option)	08	
III	Q.3 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.3 (B) Medium / Long Questions. (With Internal Option)	08	
IV	Q.4 (A) Short / Medium Questions (With Internal Option)	06	14

Q.4 (B) Medium / Long Questions. (With Internal Option)

Q.5 (A) Short / Medium Questions (With Internal Option)

Q.5 (B) Medium / Long Questions. (With Internal Option)

V

08

06

08

14