

Appendix C

GANPAT UNIVERSITY									
FACULTY OF COMPUTER APPLICATION									
Programme		B.Sc. (IT)			Branch/Spec.		Computer Applications		
Semester		IV			Version		1.0.0.0		
Effective from Academic Year			2015-16		Effective for the batch Admitted in			June 2015	
Subject code		U24A1DT2	Subject Name		Application development Tool-II				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	2	0	1	-	3	Theory	40	60	100
Hours	2	0	2	-	4	Practical	20	30	50
Pre-requisites:									
Basic knowledge of websites Designing and CMS.									
Learning Outcome:									
Students can utilize the knowledge of CMS for fast designing of web page and also able to make web site as per the requirement of client.									
Theory syllabus									
Unit	Content								Hrs
1	Introduction to WordPress: Introduction to WordPress: What is WordPress CMS and why use it? WordPress.com vs WordPress.org A Quick Tour of the Wordpress.com Dashboard 5 Minute Installation of WordPress.org A Quick Tour of WordPress.org Dashboard Building A Website in WordPress.com Unit Test: 20 Marks Practical Exercise:Homework #1 Due: Gmail / Google Analytics Account WordPress.com Website with posts, pages, and widgets and menus								
2	Introduction to Plugins Using Plugins BuddyPress SEO: Yoast& Google Analytics Free and Premium Themes Working with Twenty Twelve Theme and a Premium Theme Building A Website (open source version) Unit Test: 20 Marks Practical Exercise:WordPress.org Website with posts, pages, media, widgets and plugins								
3	Introduction to HTML & CSS HTML & CSS Review, How to use HTML & CSS within WordPress, Using WordPress, Theme Editor Customizing Themes, Building An E-Commerce Website Unit Test: 20 Marks Practical Exercise:WordPress.org Website with posts, pages, media, widgets, plugins and theme customization								
4	Advance Word press: Intro to Advanced Theme Development, PHP Basics, In depth look at Google Analytics More SEO								

	Unit Test: 20 Marks Practical Exercise:Mini Project	
Practical content		
List of programs specified by the subject teacher based on above mentioned topics		
Text Books		
1	WordPress: Visual Quickstart Guide (2nd Edition) by Matt Beck, Jessica Neuman Beck Peachpit Press publications	
Reference Books		
	Paper Structure: Question 1: Must be from all unites, Total Marks 30 Question 2: from Introduction to WordPress Marks 8 Question 3: from Introduction to Plugins Marks 07 Question 4: from Introduction to HTML & CSS Marks 8 Marks Question 5: from Advance Word press 7 Marks	

GANPAT UNIVERSITY									
FACULTY OF COMPUTER SCIENCE									
Programme		B.Sc. (IT)				Branch/Spe c.			
Semester		IV				Version		1.0.0.0	
Effective from Academic Year			2015-16			Effective for the batch Admitted in			Jun 2016
Subject code		U24B2EDM		Subject Name		ENVIRONMENT DISASTER MANAGEMENT			
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	3	-	-	-	3	Theory	40	60	100
Hours	3	-	-	-	3	Practical	-	-	-
Pre-requisites:									
There is no prerequisites are required for this subject.									
Learning Outcome:									
Students can get awareness regarding environment terminologies and also can apply this knowledge whenever any environment disaster arise									
Unit	Content								Hrs
1	Introduction to Environment : Definition, Scope of environment, Element of environment, Importance of environment Studies, Environmental issues for public Awareness, Challenges faced by environment (3), Impact of Technology on the environment (1)								4
2	Ecology & Ecosystems : Introduction: Ecology, Concepts of an ecosystem, major part of ecosystem, type of ecosystem, classification & function of ecosystem(2), Components of ecosystem-Producers, Consumers, Decomposers(2)								4
3	Environmental Pollution : Air Pollution: Composition of air, Structure of atmosphere, Ambient Air Quality Standards, Classification of air pollutants, Sources of common air pollutants, Effects of common air pollutants, what we do to reduce air pollution, Carbon credit(3). Noise Pollution: Introduction- Noise Measurement, Sources of Noise Pollution, Ambient noise levels (Noise Standard, Effects of noise pollution, Noise pollution controls (2). Water Pollution: Introduction – Water Quality Standards, Sources of Water Pollution, Classification of water pollutants, Effects of water pollutants, Preventing from water Pollution (2). Current Environmental Global Issues: Global Warming & Green Houses Effects, Acid Rain, Depletion of Ozone Layer (1).								8

4	Introduction Disaster Management : What is Disaster? Hazard and types of Hazards (1), vulnerability, risk, capacity (1), Disaster Management cycle (1).	3
5	Natural Disasters Awareness And Planning for Disaster : Floods, Earthquakes and Landslides (2), Cyclones and Thunderstorms, Tsunami (2), Drought, Heat wave and Sandstorms (2).	6
6	Man made Disasters Awareness And Planning for Disaster: War and Terrorism, Riots and Demonstrations (2), Residential and Industrial Fires, Transportation Accidents (2), Nuclear Power Accidents (2).	6
Practical content		
No Practical Content		
Text Books		
Reference Books		
1	Citizen's guide to disaster management by Satish Modh Publisher:-Macmillan Publishers India,	
2	Environment Engineering Vol-I & II, by Dr.S.K.Garg,	
3	Introduction to Air Pollution, by R.K.Trivedi & P.K.Goel.-BS Publications,	
4	Environmental Pollution Control Engineering, by C.S.Rao,	
5	Vol-I- Air Pollution, Vol-II- Water Pollution, Vol-V- Noise Pollution – By S.K.Agarwal – A.P.H.Publishing Corporation,	
6	Environmental Studies: R. Rajagopalan,Oxford University Press	
7	Environmental Pollution: Causes, Effects & Control by K.C Agrawal	
8	Environmental Science by Richard T Wright & Bernard J Nebel	
9	Environmental Science by Daniel B Botkin & Edward A Keller	
10	Environmental Engineering & Management by Suresh K Dameja	
11	Environmental Management by Dr. Swapan C Deb	
12	Introduction to Environmental Engineering and Science by Master Gilbert M.	
13	Environment & Ecology by Dr Gourkrishna Dasmohapatra	
<p>Note for Examiner: Q-1 must be common from any topics from syllabus. Q-2 and onwards must be from specific topics and internal choice or option can be given.</p>		
<p>Paper Structure: Q-1 (Attempt any Six out of Eight: each question must be 5 Marks)—30 Marks Questions must be covered from all possible section. Q-2 (Must be From Topics: Introduction to Environment (4 Marks)) Q-3 (Must be From Topics: Ecology & Ecosystems (4 Marks)) Q-4 (Must be From Topics: Environmental Pollution (8 Marks)) Q-5 (Must be From Topics: Introduction Disaster Management (5 Marks)) Q-6 (Must be From Topics: Natural Disasters (4 Marks)) Q-7 (Must be From Topics: Man made Disasters (5 Marks))</p>		

GANPAT UNIVERSITY									
FACULTY OF COMPUTER APPLICATION									
Programme	B.Sc.(IT)				Branch/Spec.	Computer Application			
Semester	IV				Version	1.0.0.1			
Effective from Academic Year		2017-18			Effective for the batch Admitted in			June 2015	
Subject code	U24A3DT3		Subject Name		Application development Tool-III				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total	CE	SEE	Total	
	L	TU	P	TW					
Credit	2	1	2	-	05	Theory	40	60	100
Hours	2	1	4	-	07	Practical	20	30	50
Pre-requisites:									
-Must have basic knowledge of object oriented programming concepts.									
-Must have basic knowledge of software application user interface.									
Learning Outcome:									
Getting the brief idea about application development and also aware with practically implementation of real time application									
Theory syllabus									
Unit	Content								Hrs
1	Introduction of .Net Framework [.Net architecture, .Net Framework, .Net Core, Comparison & Overview] (02) [Managed Code, Unmanaged Code, Assemblies, CLR, Execution Of Assembly's Code, IL, JIT, Types of JIT (02) .Net Framework Class Library, Common Type System, Common Language Specification] (02)								06
2	C# Fundamentals Advantages of OOPs, Creating Class and Object, Data Types, Operators, Constructor, Destructor, Interface, Inheritance, Polymorphism (Method Overloading, Method Overriding), Array, Jagged Array, ArrayList, HashTable, Property, Enumerator, Delegates, Exception Handling								10
3	Understanding .Net Control & Building Blocks .Net Common Controls: [Control Hierarchy, Label and LinkLabel, TextBox and RichTextBox, PictureBox, Button, CheckBox and Radio Button, ListBox, CheckedListBox and ComboBox, DomainUpDown and Numeric UpDown, MonthCalendar and DateTimePicker, TreeView and ListView, Timer, TrackBar and ProgressBar, HScrollBar, VScrollBar] (08) Common Dialogs Control & Container Control: [ColorDialog, FolderBrowser Dialog, FontDialog, OpenFileDialog, SaveFileDialog]. (03)								17

	[FlowLayoutPanel, GroupBox, Panel]. (02) Forms, MDI-Forms, Menu, PopupMenu, MessageBox, InputBox (04)	
4	ADO.Net: Architecture Of ADO.Net(01), Data Base Manipulation(03), .Net Data Provider[Connection class, Command class, DataAdapter class, DataReader class] (03),Relational Classes [DataRow, DataColumn,DataTable, DataRelation, DataSet](03), DataGridView(2)	12
Practical content		
List of programs specified by the subject teacher based on above mentioned topics		
Text Books		
1	C# In A Nutshell" By Joseph Albahari (5 th Edition) – O'Reilly Media	
2	Programming window" By Charles Petzold (6 th Edition)- Profession Publication	
Reference Books		
1	C# By Wrox Publication Beginner	
2	C# 5.0 Programmer's Reference" By Rod Stephen – Wrox Publication	
3	Applied .Net Framework Prog. In Ms Vb.Net By Jeffrey Richter, Francesco Balena- Tmh Publications	
<p>Question Paper Scheme:</p> <p>Note for Examiner</p> <p>Q-1 must be common from any topics from syllabus.</p> <p>Q-2 and onwards must be from specific topics and internal choice or option can be given</p> <p>Paper Structure</p> <p>Q-1 (Attempt any Six Out of Eight: each question must be 5 marks) --- 30 Questions must be covered all possible section.</p> <p>Q-2 (Must be From topics: : Introduction of .Net Framework (05 marks))</p> <p>Q-3 (Must be From topics: C# Fundamentals (05 marks))</p> <p>Q-4 (Must be From topics: Understanding .Net Control & Building Blocks (10 marks))</p> <p>Q-5 (Must be From topics: ADO.Net: (10 marks))</p>		

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FACULTY OF COMPUTER APPLICATION									
Programme		B.Sc. (IT)			Branch/Spec.		Computer Applications		
Semester		IV			Version		1.0.0.0		
Effective from Academic Year			2015-16		Effective for the batch Admitted in			June 2015	
Subject code		U24A4MA1	Subject Name		(Elective - I) Mobile Applications Development-1				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	2	1	2	-	5	Theory	40	60	100
Hours	2	1	4	-	7	Practical	20	30	50
Pre-requisites:									
Require Basic Knowledge of JAVA									
Learning Outcome:									
Getting the knowledge of mobile application how to create various types android application and different layout.									
Theory syllabus									
Unit	Content								Hrs
1	An Overview of Android Introducing Android: History of Mobile Software Development(2), Open Handset Alliance(2), Android Platform Differences, The Android Platform. Setting Up Your Android Development Environment: Configuring Your Development Environment(2), Exploring the Android SDK. Building Your First Android Application (2)								08
2	Android Application Design Essentials Anatomy of an Android Application: Android Terminology, Application Tasks with Activities(2), The Lifecycle of an Android Activity(2). Configuring Android Manifest File(2), Managing Application's Identity(1), Enforcing Application System Requirements(1), Registering Activities and other Application Components(2), Working with Permissions. Managing Application Resources(2).								12
3	Android User Interface Design Essentials Exploring User Interface Screen Elements: Introducing Android Views and Layouts(3), Displaying Text with TextView, Retrieving Data From Users(1), Using Buttons, Check Boxes and Radio Groups (3), Getting Dates and Times From Users, Using Indicators to Display Data to Users (2), Adjusting Progress with Seek Bar (2), Providing Users with Options and Context Menus, Handling User Events, Working with Dialogs, Working with Styles, Working with Themes(2). Designing User Interfaces with Layouts: User Interfaces in Android, Organizing Your User Interface (2), Using Built-In Layout Classes, Built-In View Container Classes(3). Drawing and Working with Animation- Drawing on the Screen, Working with Bitmaps, Working with Shapes, Working with Animation (2)								20

4	Using Common Android APIs Android Data and Storage APIs: Working with Files and Directories, Storing Structured Data Using SQLite Databases (3), Android Telephony APIs: Working with Telephony Utilities, Using SMS, Making and Receiving Phone Calls (2)	05
Practical content		
List of programs specified by the subject teacher based on above mentioned topics		
Text Books		
1	Lauren Darcey and Shane Conder, "Android Wireless Application Development", Pearson Education	
Reference Books		
1	Reto Meier, "Professional Android 2 Application Development", Wiley India Pvt Ltd (2011)	
2	Teach Yourself Android Application Development in 24 Hours, 2nd Edition.	
<p>Question Paper Scheme: Note for Examiner Q-1 must be common from any topics from syllabus. Q-2 and onwards must be from specific topics and internal choice or option can be given</p> <p>Paper Structure Q-1 (Attempt any Six Out of Eight: each question must be 5 marks) --- 30 Questions must be covered all possible section. Q-2 (Must be from topics: An Overview of Android: (5 marks)) Q-3 (Must be from topics: Android Application Design Essentials (10 marks)) Q-4 (Must be from topics: Android User Interface Design Essentials (10 marks)) Q-5 (Must be from topics: Using Common Android APIs (5 marks))</p>		

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Programme	B.Sc. (IT)				Branch/Spec.	Computer Applications			
Semester	IV				Version	1.0.0.0			
Effective from Academic Year	2015-16				Effective for the batch Admitted in	June 2015			
Subject code	U24A4WP		Subject Name		(Elective - I) Web Programming with PHP				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total	CE	SEE	Total	
	L	TU	P	TW					
Credit	2	1	2	-	5	Theory	40	60	100
Hours	2	1	4	-	7	Practical	20	30	50
Pre-requisites:									
Basic knowledge of Java Script, HTML and Data Base.									
Learning Outcome:									
Students can enhance their skill to create dynamic web base application.									
Theory syllabus									
Unit	Content								Hrs
1	JavaScript Client-Side Technologies, Variables declaration, If...Else statement, Switch statement, Operators statement, Popup Boxes, Functions, For Loop, While Loop, Break Loops, For...In, Events, Try...Catch, Throw, Java Script Objects String, Date, Array, Boolean, Math, JS Browser, Cookies, Validation, Animation, Image Maps, Timing, Create Object.								14
2	PHP Concepts Web-Technologies, Server side technologies, Web-Server, Web-Browser, Introduction to PHP, Advantages and Disadvantages of PHP, Installation of PHP, Adding PHP to HTML Syntax, Comments, Variables, Data Types in PHP, Boolean Expressions, Mathematical Operators, Branching Statements, Looping, String Functions, Date and Time Functions, Creating and Using Arrays, Multidimensional Arrays, Using Functions, Defining Your Own Functions, Functions and Variable Scope, Exceptions and Error Handling , PHP File Functions, File management with PHP, File Upload.								10
3	OOPs with PHP & Information Passing Basic PHP constructs for OOPs : Defining classes, Accessing member variables, Creating instances, Constructor, Inheritance, Overriding functions, Chained sub classing Advanced OOP features : Public, Private and Protected Members, Interfaces , Constants , Abstract classes, Simulating class functions, Calling parent functions, Automatic calls to parent constructors, Simulating method overloading Information Passing: HTTP, GET arguments, POST arguments, formatting Form variables, Manage Cookies, Session Management in PHP.								10
4	Database Manipulations with PHP and Mailing Introduction to MySQL, MYSQL Data types, MYSQL functions, Connecting to MySQL, HTML Table and Form Tags, Form Data redirection, making MySQL queries, fetching Data Sets, Database manipulation, Validating user input using JavaScript,								10

	Sending E-mail with PHP.	
Practical content		
List of programs specified by the subject teacher based on above mentioned topics		
Text Books		
1	Beginning PHP6, Apache, MySql web Development, by Timothy Boronczyk, Elizabeth Naramore. wrox publication	
Reference Books		
1	PHP 6 and MySQL by Tim Converse and Joyce Park, Bible publication	
2	PHP and MySQL Web Development, Fourth Edition, Luke Welling and Laura Thomson. Pearson	
3	Beginning PHP and MySQL, by W. Jason Gilmore, Apress	
Paper Structure		
Q-1 Attempt any Six Out of Eight: (each question must be 5 marks) --- (30 Marks) Questions must be covered all possible section.		
Q-2 Must be from topic: JavaScript (8 Marks)		
Q-3 Must be from topic: PHP Concepts (9 Marks)		
Q-4 Must be from topic: OOPs with PHP & Information Passing (6 Marks)		
Q-5 Must be from topic: Database Manipulations with PHP and Mailing (7 Marks)		

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FACULTY OF COMPUTER APPLICATION									
Programme	B.Sc. (IT)				Branch/Spec.	Computer Applications			
Semester	IV				Version	1.0.0.0			
Effective from Academic Year	2015-16				Effective for the batch Admitted in	June 2015			
Subject code	U24A4SM		Subject Name	(Elective - I) Server Management					
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total	CE	SEE	Total	
	L	TU	P	TW					
Credit	2	1	2	-	5	Theory	40	60	100
Hours	2	1	4	-	7	Practical	20	30	50
Pre-requisites:									
Basic knowledge of client server architecture,different network topology, IP Address and different classes.									
Learning Outcome:									
Student can get ability to configure roles in server side and client side. Define policy and managing.									
Theory syllabus									
Unit	Content								Hrs
1	(Basic Server Technology, Basic IP address, Configuring Network Connectivity in Windows Server 2008 Installation of server) What is client server architecture?, Types of client server architecture, Advantage –dis advantage of client server architecture, Compare with p2p and client server architecture. Difference between core and enterprise edition. What is IP, subnet mask default gate way classes of IP address? History of server technogy and different version with comparison. Installing server 2008 r2 editions of 2008 servers, Limitation of IPV 4, implementing IPv6 connectivity, Compare ipv-4 to ipv-6								20
2	(Introduction of ADDS, DNS with Zone and resolution Introduction firewall) Introduction to ADDS, Domain and Forest functionality, Components of ADDS. Use of DCPromo command, Important of ADDS in in server. Introduction of DNS, DNS Process and level, installing DNS, Introduction of zone, creating zone and difference of them. Implementation in client side operating system, ping, NSLookup, what is fire wall, Types of fire wall, Use advantage and dis-advantage of fire wall. DNS Name Resolution								15
3	(Introduction DHCP with command line, DHCP address pool, FTP, IIS) Understanding DHCP address , DHCP messages , DHCP process , deploying DHCP , Configuring DHCP server and options, excluding series of IP, address pool, where client get IP, command of getting DHCP IP in client side, introduction of web server, types of web server ,installation and configuration of FTP, introduction of IIS with types								15
4	(group policy and file server, FSRM, DFS with Security) Introduction of Group policy, GPO, local group policy VS server group policy, back-up and restore, configuration of Group policy rules , implement group policy rules in client side, installation and configuration of FSRM, Disk quota and file screening with FSRM what is DFS, installing and configuration of DFS, server backup and restore								15

Practical content	
List of programs specified by the subject teacher based on above mentioned topics	
Text Books	
1	
Reference Books	
Paper Structure	
	<p>Q-1 (Attempt any Seven Out of Ten: each question must be 5 marks) --- 30 Questions must be covered all possible section.</p> <p>Q-2 (Must be from topic: Basic Server Technology, Basic IP address, Configuring Network Connectivity in Windows Server 2008 Installation of server) (08Marks))</p> <p>Q-3 (Must be from topic: (Introduction of ADDS, DNS with Zone and resolution Introduction firewall) (10 Marks))</p> <p>Q-4 (Must be from topic: (Introduction DHCP with command line, DHCP address pool, FTP, IIS) (07 Marks))</p> <p>Q-5 (Must be from topic: (group policy and file server, FSRM, DFS with Security) (05 Marks))</p>

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FACULTY OF COMPUTER APPLICATION									
Programme	B.Sc. (IT)				Branch/Spec.	Computer Applications			
Semester	IV				Version	1.0.0.0			
Effective from Academic Year	2015-16				Effective for the batch Admitted in	June 2015			
Subject code	U24A5MIS		Subject Name		Management Information System				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total	CE	SEE	Total	
	L	TU	P	TW					
Credit	3	-	-	-	3	Theory	40	60	100
Hours	3	-	-	-	3	Practical	-	-	-
Pre-requisites:									
Require some basic fundamental knowledge management.									
Learning Outcome:									
After completion of the course the student can contribute effectively in the development and implementation of MIS in different types of organizations.									
Theory syllabus									
Unit	Content								Hrs
1	MIS and Basic Concepts Why MIS? Usefulness of MIS. (1) Definition, Problems with MIS, Knowledge requirement with MIS (4) Data, Information and Communication, Definition, Classification and Characteristics of Information (3) Communication: Definition, Communication Systems, Methods of Communication (2) System Concepts – Structure and Elements: Features of Systems Approach, Systems Elements, System Boundaries, Closed and Open Systems, Decoupling (4)								14
2	Information Systems in the Enterprise Management Levels: Top, Middle and Bottom. (1) Seven-S Model (1) Major Types of Systems in Organizations: Transaction Processing System (TPS), Knowledge Work System (KWS), Office Support System (OSS), Management Information System (MIS), Decision Support System (DSS), Executive Support System (ESS) (3) Relationship of Systems to Another (1)								06
3	Planning, Decision Making and IT Planning: Definition, Planning Terms, Levels of Planning, Planning Problems, Formal and Informal Planning, Types and Sources of Planning Information (4) Decision Making: Definition, Programmed and Non-Programmed Decisions, Levels of Decision Making, Prescriptive and Descriptive Decision Models. (4) Information Technology and MIS: IT and Information Systems (1)								09
4	E-Commerce, M-Commerce & Security Electronic Commerce: Overview of Electronic Commerce, Benefits of Electronic Commerce, Impact of Electronic Commerce, Business Models of								08

	ElectronicCommerce.(4) M-commerce : Overview and Comparisons(1) Cryptography, AuthenticationProtocolandDigitalSignature(3)	
5	CaseStudy ACaseStudyonRailwayReservationSystem,OnlineExaminationSystem,LibraryManagementSystem,PayrollManagementSystem(3)	03
Practical content		
N. A.		
Text Books		
1	Management Information System T.,Lucey,BPB publication	
Reference Books		
1	Management InformationSystem, by Kenneth C. Laudon, JaneP. Laudon, 8 th Edition,PearsonEducationPublication	
2	E-CommerceAManagerialPerspective,byP.T.Joseph,PHIPublication	
<p>Question Paper Scheme: Note for Examiner Q-1 must be common from any topics from syllabus. Q-2 and onwards must be from specific topics and internal choice or option can be given</p> <p>Paper Structure</p> <p>Q-1(Attempt any SIX Out of EIGHT: each question must be 5 marks) --- 30 Questions must be covered all possible section. Q-2(Must be From topics: MIS and Basic Concepts: (10 marks)) Q-3(Must be From topics: Information Systems in the Enterprise: (4 marks)) Q-4(Must be From topics: Planning, Decision Making and IT: (6 marks)) Q-5(Must be From topics: E- Commerce, M – Commerce, Security & Case Study: (10 marks))</p>		