Seat No.:	
<b>D</b> evelopment	[Max. Marks : 70
ss Networking.	. 3

# **LF-115**

## April-2014

## B.C.A. Sem.-VI

**SEC-302(1): Mobile Application D** 

Tin	ne: 3	Houi	rs] [Max. Marks:	70
1.	(A)	(1)	Write a note on Mobile Computing Vs. Wireless Networking.	3
		(2)	What is Mobile Computing ? Explain the characteristics of Mobile Computing.	4
			OR	
		(1)	Explain dissimilarities between 2G and UMTS.	
		(2)	Write a note on Structure of Mobile Computing Application.	
	(B)	Wri	te a note on GSM.	7
			OR	
		Exp	lain properties of MAC protocol. Also explain any one category of MAC protocol.	
2.	(A)	(1)	Define: Home Network, Foreign Agent and Correspondent Node.	3
		(2)	Explain Packet Delivery to and from a mobile node using schematic diagram.	4
			OR	
		(1)	Explain Multi-hop Wireless Network.	
		(2)	Explain M-TCP.	
	(B)	Wha	at is Mobile IP? Explain key mechanism of Mobile IP.	7
			OR	
		Wri	te a note on Mobile OS. Explain Windows Mobile OS and Android Mobile OS.	
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3.	(A)	(1)	Explain android SDK.			3				
		(2)	What is Emulator ? Write step	ps for	creating an Emulator.	4				
			OR							
		(1)	Write a note on Android and	its ve	rsions.					
		(2)	Write a note on subfolders project.	creat	ed within the root folder of an Android					
	(B)	Wri	te a note on Iatent Class and Ac	ctivity	Class.	7				
			OR							
		-	lain how to pass data between nk two or more activities.	two	activities through intent. Also explain how					
4.	(A)	(1)	Explain Value Class with suit	table (	example.	3				
		(2)	What are View Groups ? Exp	lain a	ny one view group with example.	4				
		OR								
		(1)	Explain Resource Manageme	nt in .	Android.					
		(2)	Explain the Layout Class with	n suita	able example.					
	(B)	Wri	te a note on View Class. Explai	n thre	ee views with example.	7				
			OR							
		Wri	te a note on different methods t	o dep	loy an android application.					
5.	Mul	tiple (	Choice Questions:		1	14				
	(1)		is not the standard of 30	G.						
		(a)	M-CDMA	(b)	UMTS					
		(c)	HSPDA	(d)	EDGE					
	(2)	FEC	stands for							
		(a)	Forward Error Collision							
		(b)	Forward Edge Correction							
		(c)	Forward Error Correction							
		(d)	Forward Edge Collision							
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(3)	is not a Random Assignment Schemes.					
	(a)	ALOHA	(b)	Split-ALOHA		
	(c)	CSMA	(d)	CSMA/CD		
(4)	MA	C stands for				
	(a)	Mobile Access Control				
	(b)	Medium Access Control				
	(c)	Multiple Access Control				
	(d)	Multi Access Control				
(5)	I-TC	CP stands for				
	(a)	Internet TCP	(b)	Invisible TCP		
	(c)	Indirect TCP	(d)	None of the above		
(6)		is not the TCP/IP proto	ocol la	yer.		
	(a)	Control Layer				
	(b)	Transport Layer				
	(c)	Network Access Layer				
	(d)	Application Layer				
(7)		is used for sending and	l recei	ving E-mails by a mail client.		
	(a)	FTP	(b)	MIME		
	(c)	SMTP	(d)	IP		
(8)	maii	n.xml is in folder.				
	(a)	Bin	(b)	Values		
	(c)	Layout	(d)	Gen		
(9)	Emu	ılator is also known as	·			
	(a)	Android visual device				
	(b)	Android virtual device				
	(c)	Android virtual detector				
	(d)	Android visual detector				

(10)	contains android activities related details.				
	(a)	Res.xml	(b)	Manifest.xml	
	(c)	Firstactivity.xml	(d)	Androidmanifest.xml	
(11)		is the element of intent	-filter		
	(a)	Icon	(b)	Category	
	(c)	Name	(d)	Label	
(12)		is the type of view.			
	(a)	Linkbutton	(b)	Dragbutton	
	(c)	EditText	(d)	ImageText	
(13)	Scre	en orientation in Android is ha	ndled	using method(s).	
	(a)	Anchoring			
	(b)	Resizing and repositioning			
	(c)	Both (a) and (b)			
	(d)	None of the above			
(14)		is the version of androi	d.		
	(a)	Sugar Bread	(b)	Eclair	
	(c)	Ginger Comb	(d)	Donut Cake	

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## April-2014

### B.C.A. Sem.-VI

SEC-302(2): Website Frameworks

Tin	ne: 3	Hours] [Max. N	Marks: 70
1.	(A)	What is joomla? And write a difference between static website and CMS.	7
		OR	
		Explain all steps in detail to plan you website.	_
	(B)	Write steps to create a new section and explain all section parameters.	7
		OR	
		Write steps to create new categories and explain all parameters.	
2.	(A)	Explain any three types of menus in joomla administrator interface.	7
		OR	
		Explain all the options in detail to filter articles in joomla.	
	(B)	Write steps to create and edit the articles and explain all parameters.	7
		OR	
		Explain all steps to install new template in joomla and make it default.	
3.	(A)	Explain all steps to install and configure simple image gallery in joomla.	7
		OR	
		Explain how to create and edit users in joomla.	
	(B)	Explain if condition in ruby with syntax.	7
		OR	
		Write a short note on JCE.	
4.	(A)	Explain how to create and compare string in ruby with syntax.	7
		OR	
		Explain how to create an array and accessing array elements in ruby.	
	(B)	Explain basic math operation in joomla.	7
	• 1	OR	
		Write a short note on rails.	
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Atte	ttempt the following:					
(1)	Whi	ich type of server technology is	used	by Joomla ?		
	(a)	Joomla	(b)	Apache		
	(c)	PHP	(d)	All of the above		
(2)	Joor	mla is a CMS of				
	(a)	.net	(b)	php		
	(c)	java	(d)	None of the above		
(3)	CM	S stands for context manageme	ent sys	stem. True/False.		
(4)	Whi	ich option will you select to fin	d the	unpublished Articles?		
	(a)	Component Manager	(b)	Media Manager		
	(c)	Article Manager	(d)	None of the above		
(5)	Whi	ich menu is used to add new art	ticle in	n joomla ?		
	(a)	Content	(b)	Component		
	(c)	Extension	(d)	None of the above		
(6)	Whi	ich type of files can Media Mar	nager	not upload?		
	(a)	.pdf	(b)	.png		
	(c)	.xls	(d)	None of the above		
(7)	Whi	ich option will you choose to se	et the	site metadata for the installed website?		
	(a)	Global Configuration	(b)	Module Manager		
	(c)	Section Manager	(d)	All of the above		
(8)	Glo	bal configurations are set chang	ges for	r client side. True/False		
(9)	Whi	ich one is not a type of user?				
	(a)	Public	(b)	Guest		
	(c)	Manager	(d)	Writer		
(10)	Rub	y is object oriented language.	Γrue/F	False		
(11)	Rese	cue is not a keyword in ruby. T	rue/Fa	alse		
(12)	JCE	stands for joomla content edite	or. Tru	ue/False		
(13)	Rub	y does not have type declaration	on for	variables. True/False		
(14)	Whi	ch keyword is used to define n	nethod	l in ruby ?		
	(a)	Def	(b)	math		
	(c)	sap	(d)	None of the above		

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			SEC-302(3): Website Development-II (PHP, AJAX)	
Tim	ne: 3	Houi	[Max. Marks:	70
1.	(A)	-	lain various conditional and looping statements in PHP language with mples.	h <b>7</b>
			OR	
		Exp	lain various types of Arrays in PHP language with examples.	
	(B)	Ans	wer the following questions:	7
		(1)	Explain PHP functions using example.	
		(2)	Explain various PHP operators.	
			OR	
		Ans	wer the following questions:	
		(1)	What is XAMPP? Give characteristics of XAMPP.	
		(2)	Differentiate between HTML comments and PHP comments.	
2.	(A)	Exp	lain steps of inserting new record in the MySQL table using PHP.	7
			OR	
		Exp	lain steps of deleting record from the MySQL table using PHP.	
	(B)	Ans	wer following questions:	7
		(1)	What is global variable?	
		(2)	Define the usage of PHP functions : extract() and mysql_fetch_array()	
			OR	

(2) Define the usage of PHP functions : mysql\_error() and echo().

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(1) Explain steps of MySQL database connectivity.

Answer following questions:

3.	(A)	Solve the following questions:	8
		(1) Write JavaScript function to validate email address.	
		(2) Explain AJAX Web model.	
		OR	
		Solve the following questions:	
		(1) Create HTML form with two Password fields P1 and P2. Write JavaScript to validate that, both P1 and P2 are not empty and P1 content should match to content of P2.	
		(2) Explain advantages of using AJAX technologies.	
	(B)	Explain steps to make AJAX request to the application server.	6
		OR	
		Explain AJAX script for accessing FORM elements using any one example.	
4.	(A)		8
		(1) What is RPC? Explain how it works.	
		(2) Explain SOAP Framework.	
		OR	
		Solve the following questions:	
		(1) What are Web Services ? Explain with example. Mention advantages of Web Services.	
		(2) Explain Simple Object Access Protocol.	
	(B)	Define following terms:	6
		(1) UDDI	
		(2) WSDL	
		(3) HTTP	
		OR	
		Define following terms:	
		(1) REST	
		(2) XML	
		(3) FTP	
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Fill	in the	blanks:			14
(1)	PHF	code is written between the _		tags.	
	(a)	<% %>	(c)	php ?	
	(b)	<%php %>	(d)	?	
(2)		variables in PHP start with nderscore.		sign symbol followed by either letter	
	(a)	#	(c)	?	
	(b)	@	(d)	\$	
(3)		statement loops throug	h a bl	ock of code for each element in an array.	
	(a)	foreach	(c)	for	
	(b)	dowhile	(d)	while	
(4)	\$str	="Good". 'One'; The value of	str is _		
	(a)	Compilation error	(c)	Null value	
	(b)	"Good . one"	(d)	"Goodone"	
(5)		Array does not contain	s data	of HTML form.	
	(a)	\$_SESSION	(c)	\$_GET	
	(b)	\$_REQUEST	(d)	\$_POST	
(6)		function is used to find	l size	of an array.	
	(a)	Elements ()	(c)	Size ()	
	(b)	Length ()	(d)	None of above	
(7)		function is used to sele	ecting	MySQL database.	
	(a)	mysql_select_db ()	(c)	mysql_connect ()	
	(b)	mysql_database ()	(d)	mysql_db ()	
(8)		query command is use	ed to	searching records from table in MySQL	
	data	base.			
	(a)	RETRIVE	(c)	SHOW	
	(b)	SELECT	(d)	None of above	
(9)		function create new H	ΓML	document tag.	
	(a)	GetElementByld ()	(c)	CreateNode ()	
	(b)	CreateHTMLNode ()	(d)	CreateElement ()	
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(10)	XMLHttpRequest status code 404 indicates					
	(a)	Not Found	(c)	Request Forbidden		
	(b)	Server Error	(d)	None of above		
(11)	WAN	MP is stands for				
	(a)	Wide Application Manageme	nt in F	PHP		
	(b) Windows Apache MySQL PHP					
	(c)	Web Application in MySQL	and PI	ΗP		
	(d)	Windows Application MySQ	L PHF	•		
(12)		tag is used to display lis	st elen	nents in combo box.		
	(a)	RADIO	(c)	INPUT		
	(b)	FORM	(d)	SELECT		
(13)	Web	services are not used for				
	(a)	Communicating two web app	licatio	ons		
	(b)	Exchanging web data between	n two	machines		
	(c)	Designing Web pages				
	(d)	All of above				
(14)	To st	op execution of PHP script		_ is used.		
	(a)	dispose	(c)	dead		
	(b)	die	(d)	destroy		

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#### April-2014

#### B.C.A. Sem.-VI

#### **SEC-302(4): Information Security**

Time: 3 Hours] [Max. Marks: 70 1. (A) Explain information security principles of success in detail. 8 What are the different types of computer crimes? How do cyber criminals commit those crimes? What is the tasks of Security administrator and Security testers in an (B) Information Security Organization? 3 (II) What is the Intellectual Property Law? Also explain Patent Law. 3 Explain any two domains of Information Security. (I) (II) Write a note on Computer Forensics. (A) What are the areas of providing Physical Security? 2. 8 OR What are the Operation Security controls in action? Explain the categories of Physical Threats. (B) 3 (I)(II) Explain: Operation Security Principles. 3 OR (I) Explain any two physical security principles in detail. (II) Explain any two operation security process controls in details. 3. (A) Explain the terms and concepts of Access Control System. 8 Authentication, Least Privilege, Information Owner, Access Control List OR Explain Hashing Functions and Block Ciphers of Digital Cryptography. Write a note on Biometrics. (B) 3 (I)(II) Explain Asymmetric Keys in Cryptography. 3 OR Write a note on Remote User Access and Authentication. (I) (II) Explain Transport Layer Security (TLS) of PPK Cryptography.

4.	(A)	Explain the different types of Data Networks.	8
		OR	
		Write a note on Distribution Systems. Also explain the software agents.	
	(B)	(I) What are the security services to protect network from attacks.	3
		(II) What is meant by Malware? Explain the different types of Malware.	
		OR	
		(I) Write a note on Virtual Private Networks (VPN).	
		(II) Explain the significance of Antivirus Software.	
5.	Ansv	wer the following:	14
	(1)	Confidentiality, and are the three goals of information	
	(-)	security.	
	(2)	are the white-hat hackers paid to test the security of the newly	
		acquired or developed system.	
	(3)	is any word, name, symbol or device or any combination that an	
		individual intends to use commercially and wants to distinguish as coming from unique source.	
	(4)	Investigating crimes committed with computers is known as	
	(5) Weather and structural failures are the types of physical securi (TRUE/FALSE)		
	(6)	A card carries a semi-conductor chip with logic and non-volatile memory.	
	(7)	Security deals with the control over software, hardware, media, operators and administrators who possess access privileges to any of these resources.	
	(8)	The main objective of separation of duties is to ensure that audit trails are not tampered with. (TRUE/FALSE)	
	(9) Finger print recognition, iris scan and face recognition are Biometric tech (TRUE/FALSE)		
	(10)	is the science of breaking a cryptosystem.	
	(11) protocol maintains the proper sequence of incoming pa acknowledges the receipt to the user over a network.		
(12		An extranet is an intranet that allows select users on the outside of the firewalls to access the site. (TRUE/FALSE)	
	(13)	propagates itself by infecting other programs including operating system.	
	(14)	is a Java object that once downloaded can cause undue harm on the host computer.	

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