Seat No.	:	
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March-2019

B.C.A., Sem.-VI

SEC-302: (1) Mobile Application Development

Time: 2:30 Hours]							[Max. Marks: 70					
Instru	ıctio	ns:	(1) (2) (3)	All the questions are compul- Figure to be right indicate fu Begin new question on new	ll mar							
1.	(A)	Answ	er the	following questions:								
		(i)	Expl	ain in detail GSM Services.		A	7					
		(ii)		What is Mobile computing ? What is difference betwee Computing vs. Wireless Networking ?								
				OR								
		(i)		Explain in detail FDMA(Frequency Division Multiple Access) and TDMA (Time Division Multiple Access)								
		(ii)	Expl	ain GPRS in detail.								
	(B)	MCQ	S: (A		4							
		(1)	For C	Cellular Mobile Communication	on, ea	ch area is divided in						
			(a)	hector	(b)	cell						
			(c)	sector	(d)	None of the above						
		(2)	CSM	A stands for								
			(a)	Carrier Sense Mixed Access								
		A	(b)	Collision Suit Multiple Acce	SS							
			(c)	Collision Sense Multiple Ac								
			(d)	Carrier Sense Multiple Acce	SS							
	1.	(3)	Seco	nd Generation Mobile worked	d base	d on						
	7		(a)	GPRS	(b)	GSM						
	1		(c)	UMTS	(d)	AMPS						
		(4)	GSM	I provides which categories of	f servi	ces?						
			(a)	Supplementary Services	(b)	Tele Services						
			(c)	Both (a) & (b)	(d)	None of the above						

		(5)	CDN	MA stands for						
			(a)	Code Division Multiple Ac	cess					
			(b)	Care Division Multiple Acc	cess					
			(c)	Code Division Multiple Ac	tion					
			(d)	Code Define Multiple Acce	ess					
		(6)		is not the components of	radio s	ystem.				
			(a)	Mobile Station	(b)	Mobile Switching Center				
			(c)	Base Station Subsystem	(d)	Base Station Controller				
2.	(A)	Ansv	er th	e following questions :						
2.	(21)	(i)		lain constraints of Mobile Op	eratino	System				
		(ii)		at is Snooping TCP (S-TCP).	_	, bystem.				
		(11)	** 110	OR						
		(i)	Exp	lain Architecture of TCP/IP.						
		(ii)	•	te key features of the Palm O	S					
	(B)	` /		Any four out of six)	Ο.					
	(2)	(1)		CP stands for .						
		(-)	(a)	Main TCP	(b)	Mobile TCP				
			(c)	Mixed TCP	(d)	None of the above				
		(2)	. ,	TP stands for .						
		(-)	(a)	Hyper Text Transmission F	rotocol					
			(b)	Hyper Text Transfer Protoc						
			(c)	Hyperlink Text Test Protoc						
			(d)	Hyperlink Transfer Text Pr						
		(3)	` ′	AE stands for						
		()	(a) Multipurpose Internet Mail Extensions							
			(b)	Mix Internet Mail Extensio						
			(c)	Multiple Internet Mail Exte	ensions					
			(d)	Multipurpose Internet Mess						
		(4)		is the TCP/IP Protoco	ol Laye	r.				
		10300 50	(a)	Application Layer	(b)	Transport Layer				
			(c)	Network Access Layer	(d)	All of the Above				
		(5)	It is	a Software service availab	ole on	the Internet that is responsible for				
			trans	slating domain name into IP a	address	es.				
		M	(a)	Domain Name System (DN	IS).					
	1		(b)	IP Addresses						
			(c)	Routers						
			(d)	None of the above						
		(6)	Dyn	amic Host Configuration Pro	otocol v	was developed based on				
			Prot	ocol.						
			(a)	Bootstrap Protocol	(b)	FTP Protocol				
			(c)	TCP/IP Protocol	(d)	SSID Protocol				

3.	(A)	Ansv	ver th	e following questions:							
		(i)	Writ	te a note on Android Manif	est file.	7					
		(ii)	Writ	te down steps for creating e	mulator.	7					
				OR							
		(i)	Exp	lain Android SDK.							
		(ii)	Writ	te steps for creating new Ar	ndroid Pr	roject.					
	(B)	MCQ	QS : (A	Any Three out of five)		3					
		(1)) Which are the screen sizes in Android ?								
			(a)	Small	(b)	Normal					
			(c)	Large	(d)	All of the Above					
		(2)	<u> </u>	is a compiler - generate	d file tha	at references all the resources found					
			in yo	our project.							
			(a)	R. java	(b)	main.xml					
			(c)	AndroidManifest.xml	(d)	None of the above					
		(3)	Exte	ension of Manifest file is							
			(a)	.js	(b)	xml					
		199429	(c)	.java	(d)	.htm					
		(4)		ılator is also known as							
			(a)	Android Virtual Device.							
			(b)	Admin Visual Device							
			(c)	Android Virtual Data.							
		(5)	(d)	None of the above	. 11.						
		(5) You can shut down an activity by calling its method.									
		A	(a)	onDestroy()	(b)	finishActivity()					
			(c)	finish()	(d)	None of the above					
1	M			a fallannina annationa							
4.	(A)		1	e following questions :		7					
	M	(i)	52.004	lain Resource folder.							
		(ii)	Ехр	lain View Group.		7					
		(i)	Evn	OR lain Drawable folder							
		(1) (ii)		lain Drawable folder. te a note on Relative Layou	+						
МО-	139	(11)	VV 11	3 a note on Kelative Layou		P.T.O	•				

)	MCQ	2S : (A	Any Three out of five)		
	(1)		droid component (i.e. a point from tion)?		
		(a)	Service	(b)	Activity
		(c)	Layout	(d)	Content Provider
	(2)	Wha	it is the name of the folder that	t cont	ains the R. java file?
		(a)	src	(b)	res
		(c)	bin	(d)	gen
	(3)	Wha	at does the src folder contain?	•	
		(a)	Image and icon files	(b)	XML resource files
		(c)	The application manifest file	e (d)	Java source code files
	(4)	Wha	it is the parent class of all Act	ivity v	vidgets ?
		(a)	ViewGroup	(b)	Layout
		(c)	View	(d)	Widget
	(5)	Wha	t does the Android project fol	lder "r	res/" contain ?
		(a)	Java Activity classes	(b)	Resource files
		(c)	Java source code	(d)	Libraries

Seat No.:	
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March-2019

B.C.A., Sem.-VI

SEC-302: (2) Website Frame Works

Tim	e : 2:3	60 Hou	irs] [Max. Marks :	70
1.	(A)	Ansv	ver the following :	
		(1)	What is Content Management System? Discuss about Joomla.	7
		(2)	List the various menus in Joomla and explain in brief their functionality.	7
			OR	
		(1)	What is front end and back end in Joomla? Discuss any two menus in Joomla.	
		(2)	State the difference between static websites and content management systems.	
	(B)	Atten	npt any four :	4
		(1)	Joomla is Content Management System. [T/F]	
		(2)	Joomla supports multiple languages. [T/F]	
		(3)	Registered users can work in back end as well as front end in Joomla. [T/F]	
		(4)	WAMP stands for Windows, Apache, MySQL and Perl. [T/F]	
		(5)	FOSS stands for free open source software. [T/F]	
		(6)	In Joomla, Extensions cannot be downloaded. [T/F]	
2.	(A)	Ansv	ver the following:	
		(1)	What are Articles? Discuss the features of Article manager in Joomla.	7
		(2)	Discuss Media Manager in Joomla.	7
			OR	
		(1)	What are Extensions? How do we add an extension in Joomla?	
		(2)	What are templates? Explain how to install a new template in Joomla.	
	(B)	Atter	npt any four :	4
		(1)	TinyMCE is a type of editor in Joomla. [T/F]	
A		(2)	Using global configuration, the site details can be changed. [T/F]	
	M.	(3)	In Joomla, Users are created using menu manager. [T/F]	
		(4)	New templates cannot be downloaded in Joomla. [T/F]	
		(5)	Home page settings cannot be changed in Joomla. [T/F]	
		(6)	Shopping cart, registration form, etc. are extensions which can be added in Joomla. [T/F]	

3.	(A)	Ansv	wer the following:						
		(1)	Write a short note on set operations on array in ruby.	7					
		(2)	Write a note on variables and constants of ruby.	7					
			OR						
		(1)	What is Global Configuration? Explain some options.						
		(2)	Explain with example if-else if statement in ruby.						
	(B)	Atte	mpt any three :	3					
		(1)	In Joomla, categories help to organize the articles more conveniently. [T/F]						
		(2)	Modules display content as small blocks on a page. [T/F]						
		(3)	(3) Media in Joomla is under article manager. [T/F]						
		(4)	Breadcrumbs are used to show where exactly the user in on the website. [T/F]						
		(5)	Ruby is written by Matz. [T/F]						
4.	(A)	Answer the following:							
		(1)	Explain with example case statement in ruby.	7					
		(2)	How to create string in ruby? Explain any three string methods with example.	-					
			OR						
		(1)	Explain for loop, downto and upto method in ruby.						
		(2)	Explain unless and until statements.						
	(B)	Atte	mpt any three :	3					
		(1)	Divmod method is used to return array with quotient and modulus. [T/F]						
		(2)	-1 index is used to access the last element of array. [T/F]						
		(3)	& operator is used to merge two array. [T/F]						
		(4)	Bignum class is a base class for numbers. [T/F]						
		(5)	eql ? method is used to compare two string objects. [T/F]						

Seat No.	:		
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March-2019

B.C.A., Sem.-VI

SEC-302: (3) Web-Site Development – II (PHP)

Tim	e : 2:3	0 Hot	ırs]	[Max. Marks	: 70
Inst	ructio	ns:	(1)	Attempt all the questions.	
			(2)	Make suitable assumptions whenever.	
			(3)	Figure to the right indicate necessary full marks.	
1.	(A)	Ansv	ver the	e following :	
		(i)	List	and explain the characteristics of XAMPP.	7
		(ii)	Expl	ain conditional statements in PHP.	7
				OR	
		(i)	Disc	uss PHP operators in detail.	
		(ii)	Com	pare associative and multidimensional arrays.	
	(B)	Fill in	n the l	planks : (Any Four out of Six)	4
		(i)	XAN	MPP is PHP	
		(ii)	DB.	is software in XAMPP used for creating and managing MySQL	
		(iii)		operator is used as a string concatenation in PHP.	
		(iv)	Ever	y element is associative array is in terms of pair.	
		(v)		programs are kept in subfolder.	
		(vi)	1	term is used in URL to denote PHP script is located on the local server.	L
			T		
2.	(A)	Ansv	ver the	following:	
		(i)	Expl	ain Http request methods for sending information from one form to her.	7
A		(ii)	Dem	onstrate the logic for getting information from the user in PHP.	7
				OR	
		(i)	_	ain mysql_selectdb(), mysql_query() and mysql_fetch_array() PHP tions.	•
		(ii)		are functions declared in PHP? Implement a function that can access al variables.	3

	(B)	True o	or False : (Any Four out of Six)	4
		(i)	\$_REQUEST array can be only used when client side method is \$_POST.	
		(ii)	Extract() function fetches one record from the resultset.	
		(iii)	PHP programs are compile free.	
		(iv)	POST method is less secure than GET.	
		(v)	mysql_numrows() returns the number of rows in the resultset.	
		(vi)	The third parameter of mysql_connect() is DB password.	
3.	(A)	Answ	er the following:	
		(i)	List and explain the limitations of traditional web applications.	7
		(ii)	Explain the methods of XMLHttpRequest object.	7
			OR	
		(i)	Explain all the items that are required for implementing AJAX.	
		(ii)	List and explain the properties of XMLHttpRequest object.	
	(B)	Fill in	the blanks : (Any Three out of Five)	3
		(i)	provides a tree like structure to the web page.	
		(ii)	The full form of AJAX is	
		(iii)	is used for applying styles uniformly.	
		(iv)	AJAX use tag for displaying dynamic contents.	
		(v)	Data communicated on the web server is in format.	
	1002010 120			
4.	(A)		er the following:	-
			Demonstrate the logic of checking blank filed in PHP using Java script.	7
		(ii)	Explain the methods for producing and consuming the web services.	7
		7.D.	OR	
		(i)	Implement the logic of validating email id using regular expression.	
		(ii)	Explain the working of RPC.	
	(B)		e the terms : (Any Three out of Five)	3
		(i)	WSDL	
			UDDI	
A		(111)	DOM	
		(iv)	XML	
		(v)	Interoperability	

Seat No.	:	 80.00		 	 630	

March-2019

B.C.A., Sem.-VI

SEC-302: (4) Information Security

Time: 2:30 Hours]						[Max. Marks:	70
1.	(A)	Answer the following:					
		(i)		at are the different types mitted?	of cor	mputer crimes and how they are	7
		(ii)	Disc	uss: The different branches	of the l	egal system.	7
		OR					
(i) Discuss: The Information Security Principles of Succe					ciples of Success.		
(ii) Discuss: Intellectual P				uss: Intellectual Property lav	Property law in detail.		
	(B)	Answer any : (Any Four)					
(1) are the white hat hackers paid to test the security of acquired system.			paid to test the security of newly				
			(a)	Security Consultants	(b)	Security Architects	
			(c)	Security Testers	(d)		
		(2)			elopme	ent teams to perform risk analysis of	
				system.	(1-)	C : t A 1 - : t t -	
			(a)	Security Consultants	(b)	Security Architects	
		(2)	(c)	Security Testers	(d)	All of the above	
		(3) models keep data pure and trustworthy by protecting sys from intentional or accidental changes.					
			(a)	Confidentiality	(b)	Integrity	
			(c)	Availability	(d)	None of the above	
		grants an inventor the right to exclude others from producing using the inventor's discovery or invention for a limited period of time.					
		A	(a)	Trade Marks	(b)	Patents	
			(c)	Intellectual Property Right	(d)	All of the above	
		(5)	17 10 10 10 10	ole, process and ar cility.	e all n	eeded to adequately secure a system	
			(a)	Security	(b)	Technology	
			(c)	Administrators	(d)	All of the above	
		(6) laws are written to compensate individuals who were has through wrongful acts known as torts.					
			(a)	Civil	(b)	Criminal	
			(c)	Regulatory	(d)	All of the above	

(a)	Answer the following:							
	(i)	What is meant by Physical Security? Discuss the physical	security controls.					
	(ii)	What are the physical security threats? Discuss the environmental						
		safety controls for providing physical security.						
		OR						
	(i)	Explain the significance of backup and media control in Operation Security.						
	(ii)	What are the principles of operation security? Also discuss Operations						
		Security Process Controls.						
(b)	Ansv	ver any : (any Four)						
	(1)	Operations security seeks to primarily protect against which of the following?						
		(a) Object reuse (b) Facility disaster						
		(c) Comprising emanations (d) Asset threats						
	(2)	devices detects an unusual movements wi	thin well-defined					
		interior space.						
		(a) Intrusion detectors (b) Alarm system						
		(c) Biometrics (d) Motion detectors	;					
	(3)	The major of physical security threats includes						
		(a) Earthquakes (b) Chemical/Fire						
		(c) Hurricanes (d) All of the above						
	(4)	What is the most secure way to dispose information on a CD-ROM?						
		(a) Physical Damage (b) Sanitizing						
		(c) Physical destruction (d) Degaussing						
	(5)	Intrusion response is a						
		(a) Preventive control (b) Detective contro	1					
		(c) Monitoring Control (d) Reactive control.						
V	(6)	Which of the following is not a media viability control used to protect the						
5)		feasibility of Data storage ?						
		(a) Clearing (b) Marking						
		(c) Handling (d) Storage						

3.	(a)	ver the following:					
		(i)	Discuss: The significance of Multifactor Authentication and Biometrics in Information Security.				
		(ii)	Discuss the concept of Single Sign-On, Kerberos and Federated identities in detail.				
			OR				
		(i)	Encrypt and decrypt the following message using transposition method with keyword: PRIVACY. Message is: ANYONE CAN HIDE MESSAGES				
		(ii)	Discuss: The different implementations of PPK cryptography.				
	(b)	Answer any : (Any Four)					
		(1)	What is the term for the verification that the users claimed identity is valid?				
			(a) Authentication (b) Identification				
			(c) Integrity (d) Confidentiality				
		(2)	Which access control model is called nondiscretionary access control?				
			(a) Rule-based Access control (b) Role-based Access control				
			(c) Mandatory Access control (d) Label based Access Control.				
		(3)	What are the two types of ciphers?				
			(a) Transposition and substitution (b) Substitution and replacement				
			(c) Transposition and shift (d) None of the above				
		(4)	What is called the substitution cipher that shifts the alphabet by 13 places?				
			(a) Caesar cipher (b) ROT13 cipher				
			(c) Transposition cipher (d) All of the above.				
(5)i			is the science or art of breaking cryptosystems.				
			(a) Cryptosystem (b) Cryptography				
			(c) Cryptanalysis (d) Cryptology.				
4.	(a)	Ansv	ver the following:				
		(i)	Write a detailed note on Distributed Systems.				
	V	(ii)	Discuss: Malware and Anti-virus Software.				
		OR					
		(i)	Discuss: Different data network types.				
		(ii) What is packet filtering? State and explain different types of filtering. Also discuss its advantages and limitations.					

(b)	Answer any : (Any Three)							
	(1)	Malicious code that propagates itself by infecting other programs, including OS is known as						
		(a)	Trojan	(b)	Virus			
		(c)	Worm	(d)	Applet.			
	(2)	An _	is an intranet that	allows	s select users on the outside of the			
		fire-walls to access the site.						
		(a)	Internet	(b)	Extranet			
		(c)	WAN	(d)	MAN			
	(3)	Which of the following is not a risk with distributed environment?						
		(a)	Software Agents	(b)	Java Applets			
		(c)	ActiveX Control	(d)	A firewall			
	(4)	Which OSI layer defines how to address the physical devices on the						
		netw	rork?					
		(a)	Session layer	(b)	Data link layer			
		(c)	Application layer	(d)	Transport layer			
	(5)	Another name for a VPN is						
		(a)	tunnel	(b)	one-time password			
		(c)	pipeline	(d)	bypass			

3