SK-135

September-2020

B.C.A., Sem.-VI

SEC-302 : Cloud Computing

Time : 2 Hours]

[Max. Marks : 50

- **Instructions :** (1) All Questions in Section I carry equal marks.
 - (2) Attempt any **TWO** questions in **Section I**.
 - (3) Question 5 in Section II is COMPULSORY.

Section – I

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	(B)	(i) (ii)	Explain the main characteristics of PaaS solution. What is heterogeneous cloud ? Explain in detail.	5 5
4.	(A)	(i) (ii)	What are the fundamental components of cloud reference model? Explain the advantages and disadvantages of private cloud.	5 5
	(B)	(i) (ii)	Explain the benefits and threats of virtualization in cloud computing. Draw and explain the desktop model of full virtualization.	5 5
3.	(A)	(i) (ii)	Draw and explain the machine reference model. What are the characteristics of virtualized environment ?	5 5
	(B)	(i) (ii)	Define SOA and explain its characteristics. Explain System Architecture Style in detail.	5 5
2.	(A)	(i) (ii)	Explain MIMD architecture of parallel computing in detail. Explain with diagram the role of web services in service computing.	5 5
	(B)	(i) (ii)	Explain any one cloud computing technology in detail. What are the challenges of cloud computing ?	5 5
1.	(A)	(i) (ii)	Explain various characteristics of cloud computing. What is Cloud Computing Reference Model? Draw and explain.	5 5

Section – II

MCC)s An	$(5 \times 2 = 10)$						
(i)	CSP	s is termed as						
	(A)	Cloud Service Providers	(B)	Cloud Service Producers				
	(C)	Cloud System Providers	(D)	Cloud System Producers				
(ii)	cloud network is available within an organization.							
	(A)	Private	(B)	Public				
	(C)	Hybrid	(D)	System				
(iii)	X in	XaaS stands for						
	(A)	Extra	(B)	Everything				
	(C)	Express	(D)	Expert				
(iv)	Unip	processors are used in	mac	hines.				
	(A)	SISD	(B)	CISD				
	(C)	S1CD	(D)	CSID				
(v)		is the characteristic of a service.						
	(A)	Boundaries are explicit.						
	(B)	Services are autonomous.						
	(C)	Services share schema and contracts.						
	(D)	All of the above						
(vi)	Job distribution approach is used in model.							
	(A)	farmer	(B)	worker				
	(C)	farmer and worker	(D)	Distributor				
(vii)	The	least privileged level for secur	rity is					
	(A)	Ring 0	(B)	Ring 1				
	(C)	Ring 2	(D)	Ring 3				
(viii)	Virtu	ualization can be oft	ype.					
	(A)	storage	(B)	network				
	(C)	desktop	(D)	All of the above				
(ix)		pricing strategy is adopte	ed by t	he service providers for pricing models.				
	(A)	tiered	(B)	per-unit				
	(C)	subscription-based	(D)	All of the above				
(x)	User	rs of cloud shares sar	ne coi	ncerns or needs.				
	(A)	public	(B)	private				
	(C)	hybrid	(D)	community				

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SEC-302(C) : Advance Java (New Course)

Time : 2 Hours]

[Max. Marks : 50

Instructions : (1)	All Questions in Section I	carry equal marks.
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- (2) Attempt any **TWO** questions in **Section I**.
- (3) Question 5 in Section II is COMPULSORY.

Section – I

1.	(A)	Wha	it is use of File class?	Explain File	class in depth.	10			
	(B)	Writ	te use of FilelnputStrea	m class. Exp	lain FileInputStream class in depth.	10			
2.	(A)	Exp	lain JButton class hiera	urchy, constru	actors and methods.	10			
	(B)	Wha	t is use of Layout Mar	ager? Expla	in GridLayout in depth.	10			
3.	(A)	Wha	t is event ? Explain ro	le of Event L	isteners. How event can be handled ?	10			
	(B)	Exp	lain InetAddress class	in depth.		10			
4.	(A)	List different types of JDBC drivers. Explain any two drivers in depth.							
	(B)	Exp	lain Connection and St	atement inter	faces.	10			
				Section -	П				
5.	Atte	mpt fo	ollowing : (Any Five)			10			
	(1)	To v	vrite and read from file	;	package is used.				
		(a)	Java.io	(b)	Java.inout				
		(c)	Java.file	(d)	Java.rw				
	(2)		and	are differen	t types of stream in file handling.				
		(a)	Byte and character	(b)	Data and byte				
		(c)	Data and character	(d)	None of the above				

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(3)	Seria	Serialization means							
	(a)	Object to byte stream conver	rsion						
	(b)	Byte to object stream conversion							
	(c)	Both of the above							
	(d)	None of the above							
(4)		method returns current	t state	of JCheckBox.					
	(a)	isSelected()	(b)	isStatus()					
	(c)	Any of the above	(d)	None of the above					
(5)	A cla	ass that respond to button click	ks mu	st implement a(n)					
	(a)	ButtonListener	(b)	ItemListener					
	(c)	ClickListener	(d)	ActionListener					
(6)	Hano	dlers are							
	(a)	Methods	(b)	Classes					
	(c)	Interface	(d)	None of the above					
(7)		layout is used to arrang	ge the	components in stack.					
	(a)	Flow	(b)	Border					
	(c)	Grid	(d)	Card					
(8)		class is used in connec	tionle	ss UDP.					
	(a)	DatagramPacket	(b)	Socket					
	(c)	ServerSocket	(d)	None of the above					
(9)	The	package is used for	or data	Java Database Connectivity.					
	(a)	Java.database	(b)	Java.db					
	(c)	Java.sql	(d)	None of the above					
(10)	ODE	BC stands for							
	(a)	Open database connection	(b)	Object database connection					
	(c)	Object data connection	(d)	Open database connectivity					

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B.C.A., Sem.-VI

SEC-302(3) : Web-Site Development-II (PHP, AJAX) (Old Course)

Time : 2 Hours]

[Max. Marks : 50

Instructions :	(1)	All Questions in Section I	f carry equal marks.
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- (2) Attempt any **TWO** questions in **Section I**.
- (3) Question 5 in Section II is COMPULSORY.

Section – I

1.	(A)	(i)	What is XAMPP ? What are the various characteristics of it ?	5
		(ii)	Explain in detail "associative array in PHP".	5
	(B)	(i)	What is the role of phpMyAdmin ? What are its functionalities ?	5
		(ii)	List all "Types of Operators in PHP" and explain two operators with	
			examples.	5
2.	(A)	(i)	Explain the steps to display all the records from a table of MySQL.	5
		(ii)	Explain \$ POST array and its use in PHP.	5
	(B)	(i)	Explain the steps with code to insert a record in MySQL database.	5
		(ii)	Explain global variables and its use in PHP.	5
3.	(A)	(i)	How to place an asynchronous request to server ? Explain with PHP code.	5
		(ii)	Explain traditional web application model in detail.	5
	(B)	(i)	How to place POST request of XMLHttp object using AJAX ?	5
		(ii)	Explain AJAX web application model in detail.	5
4.	(A)	(i)	Explain XML-RPC web service method in detail.	5
		(ii)	Explain with suitable code for "Checking a field for blank".	5
	(B)	(i)	Explain the web service model and the use of its each component in detail.	5
		(ii)	Explain with suitable code for "regular expression method of email	
			validation".	5
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5.	MCO			ion – I	П			
5.								
	(1)		U-GPL has GPL that refers to					
		(a)	Generic Public Level		General Public License			
		(c)	Generic Protocol Level					
	(2)	Vari	able names in PHP always sta		th			
		(a)	\$	(b)	&			
		(c)	(a)	(d)	#			
	(3)	Two	strings can be concatenated	using _	operator.			
		(a)	.(dot)	(b)	, (comma)			
		(c)	_(underscore)	(d)	+ (add)			
	(4)	Both	n \$_GET and \$_POST data ca	an be f	ound in			
		(a)	\$_REQUEST	(b)	\$_READY			
		(c)	\$_DATA	(d)	\$_ARRAY			
	(5)	In P	HP, mysql_numrows() function	on	in php.			
		(a)	assign numbers to rows					
		(b)	count number of rows					
		(c)	assign row numbers and con	unt the	em			
		(d)	None of the above					
	(6)		stores the result of SQ)L que	ry being executed.			
		(a)	Resultset	(b)	Output			
		(c)	Array	(d)	Data			
	(7)	. /	X has J that is expanded as					
		(a)	JavaScript	(b)	Java			
		(c)	Jquery	(d)	Jbeans			
	(8)	XMLHttpRequest object has a variable ReadyState whose value 4 means						
	(0)	(a)	Request Complete	(b)	Request not initialized			
		(u) (c)	Request in Process	(d)	Request has been sent			
	(9)		ected' attribute of listbox item		-			
	())	(a)	True	(b)	False			
		(a) (c)	index number	(d)	listbox item value			
	(10)	. /	WSDL means .	(u)	listoox tem value			
	(10)			(b)	Symphesis			
		(a)	System	(b)	Synchronous			
		(c)	Social	(d)	Service			
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SEC-302(4) : Information Security (Old Course)

Time : 2 Hours]

[Max. Marks : 50

Instructions : (1) A	l Questions in Section	I carry equal marks.
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- (2) Attempt any **TWO** questions in **Section I**.
- (3) Question 5 in Section II is COMPULSORY.

Section – I

1.	(A)	Exp	lain Information Security	y Principles	of Success in detail.	10			
	(B)	What are the different types of computer crime ? How do cyber criminals co							
		then	n ?	_		10			
2.	(A)	Disc	cuss the technical control	s for provid	ling physical security in detail.	10			
	(B)	Wri	te a detailed note on Ope	erations Sec	urity controls in Action.	10			
3.	(A)	Disc	cuss the principle of auth	entication.	Also discuss Biometrics.	10			
	(B)	Disc	cuss : The different imple	ementations	of PPK cryptography.	10			
4.	(A)	Write a detailed note on Intrusion Detection System.							
	(B)	Wri	te a detailed note on diffe	erent types	of data network.	10			
				Section –	П				
5.	Ans	wer ai	ny 5 :			10			
	(1)) is the enemy of security.							
		(a)	Fear	(b)	Complexity				
		(c)	Doubt	(d)	Uncertainty				
	(2)		are the white ha	t hackers p	aid to test the security of newly acquired	ł			
		system.							
		(a)	Security Consultants	(b)	Security Architects				
		(c)	Security Testers	(d)	Security Administrator				

- (3) Which of the following does not pertain to physical security ?
 - (a) Site selection
 - (b) Securing a site against unauthorized access
 - (c) Protecting people and property
 - (d) Installing firewalls on all computers.
- (4) The major of physical security threats includes
 - (a) Earthquakes (b) Chemical Fire
 - (c) Hurricanes (d) All of above
- (5) What is the most secure way to dispose information on a CD-ROM?
 - (a) Physical Damage (b) Sanitizing
 - (c) Physical destruction (d) Degaussing
- (6) What are the two types of ciphers ?
 - (a) Transposition and substitution
 - (b) Substitution and replacement
 - (c) Transposition and shift
 - (d) None of above
- (7) When you use the same key to both encrypt and decrypt a message, its called cryptography.
 - (a) Asymmetric key (b) Symmetric key
 - (c) Public private key (d) None of above
- (8) Which of the following occurs when the system classifies an action as anomalous, when it is a legitimate action ?
 - (a) False negative (b) Subversion Error
 - (c) False Positive (d) None of the above
- (9) The ISO/OSI Layer 6 is which of the following ?
 - (a) Application layer (b) Presentation layer
 - (c) Data link layer (d) Network layer
- (10) An ______ is an intranet that allows select users on the outside of the fire-walls to access the site.
 - (a) Internet (b) Extranet
 - (c) WAN (d) MAN