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March-2019

B.C.A., Sem.-V

SEC-301 (2) Advanced Java

Time: 2:30 Hours]			urs] [Max. Marks :	: 70
1.	(A)	Ansv	wer the following:	
		(i)	Explain File class with its various methods.	7
		(ii)	Explain with program how to write and read an object to and from a file.	7
			OR	
		(i)	What is RandomAccessFile ? Explain the use of RandomAccessFile class with its important methods.	
		(ii)	What is stream? Explain DataOutputStream and DataInputStream class in detail.	
	(B)	Sele	ct the correct option : (Any four)	4
		(i)	A group of characters that has meaning is known	
			[Field/File/Record/Data]	
		(ii)	The File class is provided by package.	
			[java.lang/java.io/java.awt/java.net]	
		(iii)	Most streams flow	
			[In/Out/Either in or out, but in one direction only/Both in and out]	
		(iv)	The method canWrite() of a File class returns value.	
			[Integer/Object/Void/Boolean]	
		(v)	The method contained in the RandomAccessFile class but which doesn't in the InputStream class is	
			[read()/write()/seek()/close()]	
		(vi)	is mechanism for manipulating objects as streams of bytes.	
			[Serialization/Deserialization/Chaining/None of these]	

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		(v)	The statement setLayout(new CardLayout()); creates a card layout without horizontal or vertical gap.	
		(11)	empty body for each method. The statement set avout (new Cond events) areates a cond levent without	
		(iv)	An adapter class implements all the methods in an interface, providing an	
		(iii)	The datagram socket uses UDP for sending and receiving data.	
		(ii)	The borderLayout can be used to add more than five components.	
		(i)	The java.lan package is used for network programming.	
	(B)	State	True/False : (Any three)	3
		(ii)	Explain TCP/IP Socket programming, along with methods and constructors of ServerSocket class.	
		(i)	What are event handlers? Explain any three events with their listeners and handlers.	
			OR	
		(ii)	Write importance of InetAdress class with its various methods.	7
		(i)	What is layout manager? Explain any two layouts with example.	7
3.	(A)	Ansv	ver the following:	
		(vi)	JPanel() constructor creates a new panel with flow layout.	
		(v)	becomes active.	
		(11)	of element at index i. init () method of an JApplet life cycle executes again every time the applet	
		(iv)	setSelectedIndex(int i) method of a JComboBox component sets the value	
		(iii)	To add components left to right, flow layout is used.	
		(ii)	When user close a JFrame by clicking the Close button, the default behaviour is for the frame to become hidden and application keeps running.	
		(i)	AWTEVENT is the child of EventObject class.	
	(B)		as True/False : (Any four)	4
	(D)		methods with example.	
		(ii)	Explain setLocation(), requestFocus(), getContentPane() and setEditable()	
		(i)	Explain the use of JComboBox and JCheckBox components.	
		()	OR	
		(ii)	Explain JTextBox component.	7
		(i)	Explain JFrame class with its various methods.	7

2.

(A) Answer the following:

l .	(A)	Answer the following:			
		(i)	Explain steps for JDBC connection.	7	
		(ii)	Explain how to insert and update data in database with example.	7	
			OR		
		(i)	Explain different types of drivers for database connection in Java.		
	(ii) Explain following:				
			(a) getResultset() and forName() methods.		
			(b) Prepared and Callable statements.		
	(B)	Atte	mpt any three:	3	
		(i)	JDBC stands for		
		(ii)	For creating the database connection getConnection(String URL) method is used. [True/False]		
		(iii)	method does all the changes into the database since the last commit or rollback. [Commit()/Rollback()/Execute()/None of these.]		
		(iv)	For getting a database result, the ResultSet object is used. [True/False]		
		(v)	many types of drivers are available for Java Database Connectivity. [1/2/3/4]		

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March-2019

B.C.A., Sem.-V

SEC-301 (1) Software Project Management

Time: 2:30 Hours]			urs] [Max. Marks:	70
1.	(A)	(1)	What are the activities covered by SPM?	7
		(2)	Write note on Cash flow forecasting.	7
			OR	
		(1)	Define Stakeholder. Describe briefly categories of Stakeholder.	
		(2)	Write note on Product flow diagram.	
	(B)	Defi	ne the following: (Any four)	4
		(i)	SV	
		(ii)	Maintainability	
		(iii)	Virtual team	
		(iv)	ISO	
		(v)	Reliability	
		(vi)	CMM	
2.	(A)	(1)	Explain eight core Atern/ DSDM principles.	7
		(2)	Explain Albrecht function point analysis.	7
			OR	
		(1)	The project has 9 inputs and 15 outputs. The new project B has 12 inputs and 14 outputs. Find out the Euclidean distance.	
		(2)	Explain water fall model.	

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	(B)	Attempt any four:					4
		(1)	Water	fall model can b	be expanded into _	model.	
			(A)	V-process	(B)	Incremental	
			(C)	Spiral	(D)	None of the above	
		(2)	Defin	e Bespoke syster	n.		
		(3)	Spiral	model originally	y proposed by	·	
			(A)	Boehm	(B)	Winston	
			(C)	Royce	(D)	Dexter	
		(4)	KLOO	C =	_•		
		(5)	Whiel	n of the followin	g costs is not part	of the total effort cost?	
			(A)	Costs of networl	king and communi	cations	
			(B)	Costs of providi	ng heating and ligh	nting office space	
			(C)	Costs of lunch ti	me food		
			(D)	Costs of support	staff		
3.	(A)	(1)	Draw	•	e network diagram		7
			(i)	Activity	Duration[Hr	rs] Precedents	
			(ii)	A	10	_	
			(iii)	В	15	_	
			(iv)	С	3	A	
			(v)	D	5	A	
			(vi)	E	2	_	
			(vii)	F	8	C, D	
			(viii)	G	7	B, E	
			(ix)	Н	5	F	
			(x)	I	5	G	
			(xi)	J	3	G	
			(xii)	K	7	G	
			(xiii)	L	6	Н	
			(xiv)	M	10	I, J, K	

		(2)	Explain labelling conventions of Activity on Arrow network.	7
			OR	
		(1)	Explain RISK planning.	7
		(2)	Explain brainstorming in risk identification.	4
		(3)	Explain Sociotechnical model of risk.	3
	(B)	Atte	mpt any three:	3
		(1)	CPM is :	
			(A) Critical Project Management	
			(B) Critical Path Management	
			(C) Critical Path Method	
			(D) Crash Project Method	
		(2)	PERT stands for	
		(3)	Define dangles.	
		(4)	Define RISK.	
4.	(A)	(1)	Explain ISO 12207 approach for the Acquisition and supply of software.	7
		(2)	Define Software Quality in detail.	3
		(3)	Explain fixed price per unit delivered contract.	4
			OR	
		(1)	Explain major external software quality characteristics identified I n ISO	
			9126.	
		(2)	List out general principles of Fagan method.	
		(3)	Write briefly on Software quality circles.	
	(B)		mpt any three :	3
		(1)	CV =	
			(a) EV, AC (b) AC, EV	
			(c) PV, EV (d) EV, PV	

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- (2) Why is software difficult to build?
 - (a) Controlled changes
 - (b) Lack of reusability
 - (c) Lack of monitoring
 - (d) All of the mentioned
- (3) Define RFP.
- (4) List different types of contact.

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