Total Marks: 100

(3 hours)

• Q1. Is Compulsory.

 Solve any 4 questions from 0)2.	. To	O 7.
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Q.1	A)	What is Incident Management? Explain Incident reporting and Incident Status Model in detail.	10
	B)	Explain cost and Economy aspects of testing.	10
Q.2	A)	Explain the difference between verification and validation? Explain how these activities play role in V- model?	10
	B)	Why test cases are prioritized? Mention the criteria for prioritizing the test cases.	10
Q.3	A)	Explain the Component testing in terms of Test object and Test Strategies.	10
	B)	What is mean by review? Explain different types of reviews?	10
Q.4	A)	Explain the statement coverage and branch coverage with an example?	10
	B)	Compare black box testing and white box testing. Explain with the help of an example.	10
Q.5	A)	Explain the criteria for selecting the test tools?	10
	B)	What are Generic types of Testing? Explain Functional v/s non-functional testing	10
Q.6	A)	Explain General principles of testing? What must be the psychology of testing?	10
	B)	Explain State transition testing with suitable example?	10
Q.7		 Write Short notes on: (any 4) 1. Testing V/s Debugging. 2. Data Flow anomaly. 3. Gray box testing. 4. W model. 	20
		5. OO Testing	

Page 1 of 1

		[3 hours]	arks: 80
1	b) At c) As d) An e) Illu	nestion No. 1 is compulsory tempt any four from the remaining six questions sumptions should be made whenever required and should be clearly stated asswers to sub questions should be answered together ustrate answers with diagrams wherever necessary se of Calculators is permitted	
Q1	A	Differentiate between i. 1G,2G and 3G technology ii. FDMA,TDMA and CDMA	10
	В	Discuss the various transmission impairments in wireless communications	10
Q2	A	Describe Symbian OS features	10
	В	Discuss the WiMAX architecture in detail	10
Q3	A	What are Convolution codes? Draw and explain an encoder with value k=1,n=2, K= Explain with the help of example	=3. 10
	В	Describe the WAE architecture and WAP protocol stack in brief	10
Q4	A	What is handover? Explain the various strategies of mobile handover	10
	В	Describe the GSM protocol architecture.	10
Q5	A	What is spread spectrum technology? Explain the FHSS and DSSS techniques for spreading the spectrum.	10
	В	Explain the life cycle of a midlet in J2ME. What are the profiles supported by CDL configuration	C 10
Q6	A	What are antennas? Explain the various types of antennas	10
	В	What is Free Space Loss? Determine free space loss at 6 GHz signal for the shortes path to a geo synchronous satellite (65535 km apart).	t 10
Q7	A	Write short notes on any four of the following i. Fading ii. WPA and WPA2 iii. Infrared LANs iv. GPRS v. TAPI	20

(3 hours)	[Total Marks:
N.B.: 1) Question 1 is compulsory	
2) Answer any four of the remaining six questions	
3) All questions carry equal marks	
Q1. A. Describe desirable features of a Good Message Passing System	(10)
B. Explain RPC architecture in detail	(10)
Q2. A. What are the desirable features of a good process migration mechanism?	(10)
B. Explain various clock synchronization algorithms used in a distributed system	(10)
Q3. A. Explain the load sharing approach in distributed systems	(10)
B. Explain Mutual Exclusion algorithm along with importance of Critical section	(10)
Q4. A. Explain group communication in message passing	(10)
B. Discuss desirable features of Distributed File System	(10)
Q5. A. Explain the architecture of Distributed Shared Memory	(10)
B. What are the desirable features of a good naming system?	(10)
Q6. A. Discuss Non Replicated Migrating Blocks (NRMB) strategy in distributed shared sys	stem (10)
B. Explain different distributed computing models	(10)
Q7. Write short note on the following (any four)	(20)
A. Election Algorithm	
B. Thrashing	
C. Light weight RPC	
D. Consistency Model	
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QP CODE: 40332

		(3 Hours) Total Marks: 100	
N.	В.:	 Question No.1 is compulsory. Attempt any four from the remaining six questions. All questions carry equal marks. 	
1.	(a)	Explain .NET Framework with advantages and disadvantages of CLR.	(10)
	(b)	Explain Inheritance and Polymorphism in C# with an example.	(10)
2.	(a) (b)	Explain Serialization and Deserialization in C# with example. What is Page Event? Explain the page life cycle of ASP.NET page with an example.	(10) (10)
3.	(a) (b)	What is a Web Service? Explain Web Service architecture. How will you create custom validation control in ASP.NET? Explain with suitable example.	(10) (10)
4.	(a)	What is Http Sessions? Design Servlet to count the number of times the page is visited using session.	(10)
	(b)	Explain ASP.NET Page Directives.	(10)
5.	(a)	Explain DriveInfo, Directory, FileInfo classes with properties and Methods in C# with example.	(10)
	(b)		(10)
6.	(a)	Explain Request Dispatching with suitable example.	(10)

(b) Explain Search engines optimization and its limitations. (10)

7. Write a short note any 4

(20)

- a) SOA
- b) Components of JSP
- c) Semantic Web
- d) Generics
- e) CTS
