

B)

## Q.P. Code: 22699

**Duration: 3 hours** 

**Total Marks: 100** 

10

10

- N.B. (1) Question No.1 is compulsory
  (2) Answer any 4 of the remaining questions
  (3) Figures to the right indicate full marks
- **Q.1 A)** What is cause effect graphing decision table technique? Explain with an example. **10**
- **Q.2 A)** Explain the role of testing in SDLC. Explain System testing and its importance. **10** 
  - **B**) Write the different steps involved in the review process.

Which are fundamental tests processes? Explain.

- **Q.3 A**) Explain the difference between functional and non-functional testing. Explain 10 load testing, performance testing and stress testing.
  - B) Explain the test objectives, test environment and test strategies for unit testing. 10
- Q.4 A) Compare black box testing and white box testing. Explain with the help of an 10 example.
  - **B**) What is State Transition Testing Technique? Draw the transition tree for a Stack. **10**
- Q.5 A) Explain different types of test strategies. Explain Analytical versus Heuristic 10 Approach.
- B) Explain the cost and economy aspects of testing.
  Q.6 A) What are the test tools for dynamic and static testing?
  B) Describe criteria for selection and introduction of test tools.
  10
- Q.7Write short notes on any four:<br/>(a) Integration Testing<br/>(b) Intuitive and Experience Based Testing<br/> $\in$  Incident Reporting<br/>(d) Software Quality<br/> $\notin$  Static Testing20

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## Q.P. Code: 22601

**Total Marks: 100** 

(10)

(10)

(10)

(10)

(3 Hours)

- **N.B.**: 1) Question No.1 is compulsory. 2) Attempt any **four** from the remaining **six** questions. 3) Figures to the right indicate full marks Explain the IEEE 802.11 system architecture and its services. 1. (a) Explain GSM system architecture in detail. (b) 2. (a) What are the advantages of spreading the spectrum? Discuss how it is done using frequency hopping method. What is handover? Discuss the different types of handover and what in (10) (b) what situation the handover takes place. What is WiMax? Explain the basic component and setup of WiMax (10) 3. (a) networks. Describe J2ME architecture with respect to various configurations and (10) (b) profiles. List various states of midlet life cycle. What is piconet and scatternet? Explain in brief Bluetooth protocol (10) 4. (a) stack. Why WEP is a weak algorithm? Explain the use of WPA and WPA2 (10) (b) in implementing WiFi security. 5. (a) Discuss the different types of antennas used in wireless (10) communication. What is CDMA? Compare CDMA with TDMA and FDMA (10) (b) techniques. 6. (a) What does (n,k,K) mean in convolution code? Explain (2,1,3) with the (10)help of shift register and state diagram. What are the functions supported by WML? In brief, describe WTLS (b) security services
- 7. Write Short Notes on any **four** of the following :-(20)
  - a) Digital modulation techniques (ASK, FSK, PSK)
  - b) Mobile IP

M.C.A [SEM – V]

<u>Wireless Technology</u>

(DEC-2017)

- c) Symbian OS
- d) Free Space Loss
- e) Atmospheric Absorption

<b>Distribute</b>	d	EM – V] Computing 2017) [Time: Th	Q.P. Code :04146 ree Hours] [	[ Marks:80]
	N.B	Please check whether y 1. Question.No.1 is compulsory 2. Attempt any four from Q2 to 3. Figures to the right indicate	Q7.	
1.	a.	Explain the issues in design of a Distr	ibuted OS?	(10)
	b.	Write short notes on i) DCE ii) Buff	ering	(10)
2.	a.	Describe the blocking and non-block	ing types of IPC along with its pros and cons. Which i	is <b>(10)</b>
		easier to implement and why?		
	b.	Explain the various consistency mod	els of DSM in brief.	(10)
3.	a.	Explain the synchronization algorithm	ns in brief.	(10)
	b.	Discuss the issues in designing Load-	balancing algorithm.	(10)
4.	a.	Give suitable examples for each of th	ne following, a process using multiple threads:-	(10)
		I) In dispatcher worker mo	del	
		II) In a pipelined process m	odel	
		III) In a team model		
	b.	Explain how RPC model works with s	uitable diagram.	(10)
5.	a.	What is an idempotent operation? V	/hich of the following operations are idempotent?	(10)
		Justify.		
		a. Cin>>data;		
		<ul><li>b. ifstream infile("input text");i</li></ul>	nfile.seek();	
		c. cout<< data;		
		d. int a=1,b=2,c; c= a + b;		
	b.	What are the different address space	e transfer mechanisms used in process transfer?	(10)
6.	a.	Explain the various file accessing mo	dels and the file sharing semantics in brief.	(10)
	b.	Write a short note on i) Thrashing i	i) Human oriented names	(10)
7.		Write short notes on <b>any four</b> from t	he following:	(20)
		a. Process addressing		
		b. Client-Server binding		
		c. Election algorithm		
		d. NFS vs. AFS		
		e. Munin		

----- xxx All the Best xxx -----

QP Code: 25679

**Total Marks: 100** 

M.C.A [SEM – V] Advanced Web Technologies (<u>DEC- 2017)</u>

## (3 Hours)

	<ul> <li>(1) Question No. 1 is compulsory</li> <li>(2) Solve any four questions from Question Nos. 2 to 7</li> <li>(3) All question carries equal 20 marks.</li> </ul>	
Q1.	<ul> <li>Write short notes on (any four):-</li> <li>a) Referance Data Types in C#</li> <li>b) DataBound Controls in ASP.NET</li> <li>c) Semantic Web</li> <li>d) XML Schema</li> <li>e) SaaS</li> </ul>	(20)
Q2.	<ul><li>a) Explain .NET Framework in detail.</li><li>b) Explain Search engines optimization and its limitations.</li></ul>	(10) (10)
Q3.	<ul><li>a) Explain Generics in C# with example.</li><li>b) What is Cookie? Design a JSP page to demonstrate the use of Cookies.</li></ul>	(10) (10)
Q4.	<ul><li>a) What is DTD? Why to use DTD? Explain internal DTD and external DTD with an example.</li><li>b) Explain Servlets life cycle in detail.</li></ul>	(10) (10)
Q5.	<ul><li>a) How will you create custom validation control in ASP.NET? Explain with suitable example.</li><li>b) Design a Registration form for online shopping site using ASP.NET with add, update, delete operations.</li></ul>	(10) (10)
Q6	<ul> <li>a) Illustrate RequestDispatcher in Servlet</li> <li>b) Explain <jsp:include> and <jsp:forward> action tag with suitable example.</jsp:forward></jsp:include></li> </ul>	(10) (10)
Q7.	<ul> <li>a) Differentiate between (any two)</li> <li>i. Managed code and Unmanaged code in .NET</li> <li>ii. HttpServlet and GenericServlet</li> <li>iii. J2EE and .NET</li> </ul>	(10)
	b) Explain Web Service architecture.	(10)

<u>Elective</u>	M.C.A [SEM – V] <u>– 2 Logistics &amp; Supply Chain</u> <u>Management</u>			upply Chain	Q. P. Code : 27604			
		<u>(DEC- 2017)</u>			urks: 100	Time: 3 Hrs	Time: 3 Hrs	
			NOTE: I. II. III.		s <b>Compulsory</b> . r out of remaining six nswer with the help of an	example		
	1.	(A)	Explain s	upply chain perfor	mance drivers.		10	
		<b>(B)</b>	Explain J	IT and VMI			10	
	2.	(A)	Explain th	he role of Distribu	tion Networks in supply c	hain management.	10	
		<b>(B)</b>	Explain tr	raditional and mod	lern approaches to SCM.		10	
	3.	(A)	-	ow Information Te ith example.	echnology and Internet pla	ays important role in SCM,	10	
		<b>(B)</b>	Explain ri	isk management fo	precasting in detail.		10	
	4.	(A)	Explain w	varehousing in det	ail and its types used signi	ficantly in SCM industries.	10	
		<b>(B</b> )		-	ved in the supply chain an f each party involved.	d by giving appropriate	10	
	5.	(A)	Explain C	Customer Life cycl	e in detail.		10	
		<b>(B</b> )	-	n detail cycle view Isiness model.	of supply chain? Give on	e real time example of any	10	
	6.	(A)	Explain p	ush-pull model in	detail with one real time r	narket example.	10	
		<b>(B)</b>	What are	different transport	formats and different mo	des of transportation?	10	
	7.		Explain a	ny four of the follo	owing terms :		20	
		(A) (B) (C) (D) (E)	Benchman Data mini	U				

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