(3 Hours)

QP Code: 2761 [Total Marks: 100

Dec

N.B. (1) Question No. 01 is compulsor	(1)	(1) Question	No.	01	is	compulsor
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- (2) Attempt Any Four questions from the remaining Five Questions.
- (3) Assume suitable data wherever required.

(3) Assume suitable data wherever required.	
1. a) With neat and labeled diagram explain design steps for multimedia systems.	10
b) Draw and explain workstation based architecture for multimedia system, Also specify hardware and software expected at each layer (if any) considering an example.	10
2. a) Write a detailed note on storage & retrieval technologies.	10
b) What is an Authoring System? Explain it's type with an example	10
3. a) Explain Chroma sub Sampling.	05
b) Explain elements of multimedia systems.	05
c) Explain in detail MIDI communication protocol.	10
4. a) Explain MPEG-1 compression in detail.	10
b) Explain Virtual Reality design considerations.	10
5. a) Explain Audio compression in detail.	10
b) Explain Streaming Protocols.	10
6. a) Explain Level 0 through Level 5 of RAID functionality.	10
b) You are appointed as a consultant to set up Multimedia laboratory in Engineering Institute.	10
Give the specifications of various components, configuration, connectivity, software etc.	
along with the assumption.	
7. Write short notes on following. (Any two)	20
a) Digital Camera	
b) Distributed Multimedia databases.	
c) Knowledge based multimedia system.	
d) Multimedia Animation.	

## QP-Con. 11901-15.

#### **QP Code: 2697**

	(3 Hours) [Total Marks 100]	
2	: Question No.1 is Compulsory. Attempt any four out of remaining Questions. Figures to the right indicate full marks.	
-		
O1. A	Attempt any four from the following questions.	[05]
Я	Compare and contrast stream connector and linkage connector.	[00]
h	(a) Compare and contrast stream connector and initiage contractor of the contract stream connector and initiage connector and i	[05]
	architecture?	[05]
C	Differentiate architectural erosion and architectural drift	[05]
4	What is a difference between view and viewpoint?	[05]
e	Differentiate software architecture and software design.	آويا
	, see	[10]
O2 a	What is SOA and web services?	[10]
(2. b)	What is architectural pattern? Explain any one pattern in detail with	[10]
, 0)	example.	[10]
	•	
O3 a	Compare and contrast event-based and client-server based data distribution	
Q3 a,	connector.	50.63
	) What is stakeholder driven modelling?	[05]
b	What is stakeholder driven mederang.	[05]
C	Explain basic features of xADL.	
	List various architectural styles. What are the differences between architectural	
Q4. a)	List various architectural styles. What are the discourse	[10]
	styles and Architectural patterns.	[05]
Ъ	Explain simulation base framework	[05]
c	styles and Architectural patterns.  Explain simulation base framework  Explain 4+1 view in UML?	[00]
	. W	[10]
O5. a	What is REST? Explain its architecture.	
b	) What is perspective and descriptive architecture	[10]
O6 a	) Explain in brief the guidlines of a good Software architecture for achieving	
	NFP (no-functional property) goals.	[10]
<b>b</b> '	Explain with an example software System Mobility and Architecture	[10]
O,	) Explain with an example of	
07 1	Vrite short notes on [Any TWO]	[20]
		L J
i)	C2 style Architecture	
ii)	ATAM	
iii)	Domain specific software architecture	

## QP-Con. 11427-15.

Q.P. Code: 6393

#### (3 Hours)

[Total Marks: 80

NB:	
<ol> <li>Q1 is compulsory.</li> <li>Attempt any 3 questions out of the rest.</li> </ol>	
QD	
<ul> <li>a) Draw and Explain Electromagnetic Spectrum for communication.</li> <li>b) Explain agent Advertisement in Mobile IP</li> <li>c) Explain the difference between Adhoc Network and infrastructure based wireless network.</li> </ul>	(5) (5) rks (5)
d) Explain the U <sub>m</sub> interface of GSM	(5)
Q 2)	
a) Explain how a Bluetooth network is established using baseband state transitions.	(10)
b). Explain Mobile Call termination in GSM, detailing the need and the use of	(10)
MSRN, IMSI, TMSI no.s	
Q3)	
a) Compare various IEEE 802.11x standards. (a/b/g/i/n etc)	(10)
b) Explain the functioning of Mobile -TCP	(10)
Q4)	
a) Why does the Mobile IP packet required to be forwarded through a tunnel.	(10)
Explain Generic techniques of encapsulation of Mobile IP packet b) Explain differences in GSM, GPRS and UMTS.	(10)
Q 5)	
a) Explain UMTS architecture. Explain UTRA -FDD and TDD modes	(10)
b) Explain Security issues in wireless communication, typically for cellular networks	(10)
Q 6) Short Notes on any 4	(20)
a) Satellite Communication	
b) Android framework	
c) HIPERLAN 1 Vs HIPERLAN2	
d) PSTN	

# MD-Con. 10379-15.

e) Celiular IP

Dec 2015

## QP Code: 2616

(3 Hours) [ Total Marks: 100

N.B. i)Question No. 1 is Compulsory.

ii) Attempt any four questions out of remaining questions.

Q.	a) List the steps of User Interface Design Process	[5]
	b) What are different Indirect requirement collection techniques?	[5]
	c) What are different types of windows.	[5]
	d) What are qualities of visually pleasing composition?	[5]
Q.2	a)Explain with example various types of Text messages. What are guideline prince	ciples
	for designing text messages.	[10]
	b) Explain different positioning and pointing devices.	[10]
Q.3	a) What are possible uses of colors and problems associated with it?	[10]
	b) Give guideline principles for designing UI for elderly people	[10]
Q.4	a) What is Card Sorting? Compare Open card sorting with Closed card sorting	[10]
	b) Design the User Interfaces for Online Cricket scorer part of Newspaper. How	w will you
	make interface more Learnable and Predictable.	[10]
Q.5	a) What is Grouping? Explain techniques of Grouping of screen data with exa	ample [10]
	b) Explain various operable controls with example	[10]
Q 6	a) What are characteristics of Web based systems.	[10]
	b)What are problems associated with UI design.	[10]
Q.7	Write short note on any two of the following:	[20]
	(i) Types of Menus	
	(ii ) UI building tools	
	(ii) Applications of HCI	
	(iv)UI Internationalization	

### QP-Con.-11145 -15