KADI SARVA VISHWAVIDYALAYA

B.E SEMESTER VII EXAMINATION (Nov-2016)

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SUBJECT NAME: NEXT GENERATION NETWORK

DATE: 10/11/2016

TIME: 10:30 am to 01:30 pm

TOTAL MARKS: 70

Instructions:

- 1. Answer each section in separate Answer sheet.
- 2. Use of scientific Calculator is permitted.
- 3. Al Indicate clearly, the options you attempted along with its respective question number
- 4. Use the last page of main supplementary for rough work

SECTION-1

Q-1		All Compulsory		
Q-1	(A)	Describe the following networks with example.	05	
		(a) Wired Network (b) Wireless Network (c) Ad hoc Network		
Q-1	(B)	Write a brief note on:	05	
		(a) Client context manager (b) CC/PP (c) Policy manager (d) Security manager		
	(0)	(e) P3P		
Q-1	(C)	Explain the differences between 1G, 2G, 2.5G and 3G mobile	05	
		communications. OR		
0.1	(C)	Explain about indirect & snooping TCP. Also give any two advantages of	05	
Q-1	(0)	mobile TCP.	05	
Q-2		Answer the following Questions		
Q-2	(A)	Explain following protocol used in the Bluetooth technology	05	
		1. Link Manager Protocol.		
		2. Logical Link Control and Adaptation Protocol.		
0.0	(D)	3. RFCOMM	05	
Q-2	(B)	What are HLR and VLR? Describe its functions in call routing and roaming.		
		OR		
Q-2	(A)	What is active RFID? Describe two applications of active RFID. How is active	05	
		RFID different from passive RFID? Describe two applications of passive		
	(72)	RFID.	0.5	
Q-2	(B)	What is handover/handoff? How is handoff different from roaming?	05	
Q-3		Answer the following Questions		
Q-3	(A)	Explain the GPRS system architecture with figure.	05	
Q-3	(B)	What is the difference between SM-MT and SM-MO? Explain both in detail.	05	
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		OR	
Q-3	(A)	Explain data services in GPRS?	05
Q-3	(B)	What are various strengths of SMS? Explain all of them. Also, state what are the applications areas where these strengths can be used?	05
		SECTION-2	
Q-4		All Compulsory	
Q-4	(A)	Describe what are the limitations and applications of GPRS?	05
Q-4	(B)	Explain GPRS data link layer and GPRS physical layer.	05
Q-4	(C)	Mention some of the advantages and dis advantages of WLANS? OR	05
Q-4	(C)	Explain wireless LAN infrastructure and ad hoc mode with figure.	05
Q-5		Answer the following Questions	
Q-5	(A)	Explain wireless LAN security in detail.	05
Q-5	(B)	Compare Wifi Vs. 3G.	05
		OR	
Q-5	(A)	Explain types of wireless LAN.	05
Q-5	(B)	Explain wireless LAN applications.	05
Q-6		Answer the following Questions	
Q-6	(A)	Compare CDMA Vs. GSM.	05
Q-6	(B)	Explain voice over IP applications.	05
		OR	
Q-6	(A)	What is VoIP? Compare H.323 and SIP.	05
Q-6	(B)	Explain session initiation protocol architecture in detail.	05

*** ALL THE BEST***

KADI SARVA VISHWAVIDHYALAYA

B.E. Semester VII Examination - Nov. - 2015

SUBJECT NAME & CODE: NEXT GENERATION NETWORKS CE-702

DATE: 24/11/2015 TIME: 10.30 AM to 1.30 PM TOTAL MARKS: 70

Instructions:

- 1 Answer each section in separate answer sheet.
- 2 Use of scientific calculator is permitted.
- 3 All questions are Compulsory.
- 4 Indicate clearly, the options you attempt along with its respective question number.
- 5 Use the last page of main supplementary for rough work.

SECTION-I

Draw the Bluetooth protocol stack and explain core protocols.	5
What is handover/handoff? How handoff is different from roaming?	5
List and explain the strengths of SMS. OR	5
Explain Physical and Logical architecture of wireless Communication.	5
Explain the Multiple Access Techniques used to access the channel by mobile subscriber. • Time Division Multiple access. • Code Division Multiple access.	5
Explain tunneling and encapsulation in mobile IP. OR	5
What is the difference between SM-MT and SM-MO? Explain.	5
List out GSM Specification and explain functional architecture of GSM.	5
Differentiate active and passive RFID with diagrams.	5
Write short note on: 1G, 2G, 2.5G and 3G mobile communications. OR	5
Compare and contrast WiMAX and WiFi technologies.	5
Explain Abstract Mobility Management Model.	5
	What is handover/handoff? How handoff is different from roaming? List and explain the strengths of SMS. OR Explain Physical and Logical architecture of wireless Communication. Explain the Multiple Access Techniques used to access the channel by mobile subscriber. • Time Division Multiple access. • Code Division Multiple access. Explain tunneling and encapsulation in mobile IP. OR What is the difference between SM-MT and SM-MO? Explain. List out GSM Specification and explain functional architecture of GSM. Differentiate active and passive RFID with diagrams. Write short note on: 1G, 2G, 2.5G and 3G mobile communications. OR Compare and contrast WiMAX and WiFi technologies.

Cont..

SECTION-II

Q-4					
	١.	Explain the GPRS functional architecture and application.	5		
F	3.	Give six functions where CDMA is different from GSM.	5		
C	· .	Explain Wireless LAN standards and its architecture. OR			
C	· .	Explain classical TCP improvements and snooping TCP.	5		
Q-5	۸.	What are different elements in VoIP architecture? Discuss the role of such elements.	5		
I	3.	What is CDMA technology? Explain the Direct Sequence Spread Spectrum Techniques.	5		
		OR			
A	A .	Describe Wired, Wireless & Ad-hoc networks.	5		
I	3.	Describe the WAP protocol stack while enumerating the functions of different slayers.			
Q-6					
	A.	Explain MMS architecture and transaction flow in MMS.	5		
I	3.	Discuss the difference between H.323 and SIP. OR			
F	A.	Describe IPV6 in detail.	5		
I	3.	Answer the following questions. 1. IPv6 Security 2. Limitations of GPRS 3. IMEI 4. OSS 5. NSS	5		