Total No. of Questions: 6

Total No. of Printed Pages:3

Enrollment No.....



## Faculty of Science / Engineering End Sem Examination May-2024

## CA3EG11 Wireless & Mobile Computing

Programme: BCA / BCA-Branch/Specialisation: Computer MCA (Integrated)

Application

**Duration: 3 Hrs. Maximum Marks: 60** 

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if

neces	ssary. I	Notations and symbols have the	eir usual meaning.			
Q.1	i.	CDMA stands for:				
		(a) Code-Division Multiple	Access			
		(b) Carrier Division Multiple	e Access			
			(c) Compact Digital Multiplex Arrangement			
		(d) None of these				
	ii.	Fading due to shadowing is				
		(a) Fading due to large obstr	uctions			
		(b) Large coherence time of constraints	f the channel as compared to the delay			
		(c) Small coherence time or constraints	f the channel as compared to the delay			
		(d) Fading due to large obst channel as compared to the	ructions and Large coherence time of the he delay constraints			
	iii.	Which one is not the service of GSM?				
		(a) Bearer services	(b) Tele services			
		(c) Supplementary services	(d) Video services			
	iv.	SMS is-		1		
		(a) Short Message Service	(b) Secure Message Service			
		(c) Short Message System	(d) Short Memory Service			
	v.	The IEEE 802.11 standard f model.	ocuses on the layers of the OSI	1		
		(a) Last	(b) Bottom two			

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(c) Bottom three

(d) All of these

	vi. What is ISM band?			
		(a) Industrial, Scientific and I	Medical	
		(b) Indian Scientific and Med	lical	
		(c) International Scientific an	nd Medical	
		(d) International Scientific M	lodel	
	vii.	Which of the following is fal	se with respect to TCP?	1
		(a) Connection-oriented	(b) Process-to-process	
		(c) Transport layer protocol	(d) Unreliable	
	viii.	What is RFC?		]
		(a) Request for Connect	(b) Request for Comments	
		(c) Request for Collect	(d) Request for Connection	
	ix.	A proxy firewall filters at		]
		(a) Physical layer	(b) Data link layer	
		(c) Network layer	(d) Application layer	
	х.	What is IDS?		1
		(a) Internet Detection System	1	
		(b) Intrusion Detection Syste	m	
		(c) Information Detection Sy	stem	
		(d) Information Define Syste	m	
Q.2	i.	Why cell site shape is hexago	onal?	2
	ii.	•	ency reuse? Explain with example.	3
	iii.	<del>-</del>	of basic digital communication system.	4
		Explain each block in detail.		
OR	iv.	What do you mean by multiple access technique? Explain any two multiple access techniques.		
Q.3	i.	What are the basic blocks of	GSM architecture?	
<b>C</b>	ii.	Explain different types of GS		8
OR	iii.	Explain the protocol architec		8
		1		
Q.4	i.	Give any three differences	between HIPERLAN 1 and HIPER-	3
		LAN2.		
	ii.	Write down comparison be 802.11 g.	etween IEEE 802.11 a, 802.11 b and	7
		-		

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OR	iii.	Discuss the different Bluetooth-user scenarios.			
Q.5		Attempt any two:			
	i.	Differentiate between Indirect TCP, snooping TCP and mobile TCP.	5		
	ii.	Discuss the characteristics and performance issues of mobile IP and DHCP.	5		
	iii.	Explain wireless sensor network and mobile ad hoc network with a suitable example.	5		
Q.6		Attempt any two:			
	i.	Write the short note on intrusion detection system.	5		
	ii.	What is virus, thread and warms?	5		
	iii.	Explain firewall with its types.	5		
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## **Marking Scheme**

## Wireless & Mobile Computing (T) - CA3EG11 (T)

Q.1	i)	a) Code-Division Multiple Access	1
	ii)	a) Fading due to large obstructions	1
	iii)	d) Video services	1
	iv)	a) Short message service	1
	v)	b) Bottom two	1
	vi)	a) Industrial, Scientific and Medical	1
	vii)	d) Unreliable	1
	viii)	b) Request for Comments	1
	ix)	d) Application layer	1
	x)	b) Intrusion detection system	1
Q.2	i.	2 marks	2
	ii.	2+1 theory, diagram	3
	iii.	2+3	5
OR	iv.	1+2+2	5
Q.3	i.	2 marks	2
	ii.	Each type 2 marks	8
OR	iii.	4+4 theory, diagram	8
0.4			•
Q.4	i.	Each 1 marks	3
OD	ii.	Each 1 marks	7
OR	iii.	3+2+2	7
Q.5	i.	2+2+1	5
	ii.	3+2	5
OR	iii.	3+2	5
Q.6			
Q.U	i.	Theory 5 marks	5
	ii.	2+2+1	5
	iii.	2+2+1 2+3	5
	111.	273	3

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