PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024

(Sixth Semester)

Branch - ELECTRONICS

DISCIPLINE SPECIFIC ELECTIVE -II MOBILE TECHNOLOGY

Time: Three Hours Max					Maximum: 50 Marks	
	SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks (5 x 1 = 5)					
1.	3G CDMA is also li)UMTS			iii) DECT	iv)DECS 1800	
2. Which of the following usually stores all user related data that is al GSM?					that is also relevant to	
	i)SIM		ii) MEMORY	iii) NETWORK	iv) all	
3.	3. Which one of the following enables us to use the entire bandwidth simultaneously?					
	i)TDMA		ii) FDMA	iii) CDMA	iv) all	
4.			o uses typ ii) non-commercia		iv) all	
5.	Mobi i) Spe		ation technology is ii) protocols	built with iii) service	iv) all	
SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)						
6.	a	OR				
	b		cedure of cell secto			
7.	a List out the advantages of FDMA. OR					
	b	Explain the efficiency of different wireless technology in detail.				
8.	OR					
	b		term authentication			
9.	OR					
	b	Narrate abou				
10.	a	Discuss about UMTS time slots. OR				
	b	Explain the I	JMTS hand over w	vith diagrams.		

Cont...

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SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11. a Explain the procedure for cell clustering.

OR

- b Discuss about the various mobile communication antennas.
- 12. a Enumerate about CDMA and its applications.

OR

- b Discuss in detail about FDMA.
- 13. a Explain the GSM call setup procedure.

OR

- b Discuss about GSM protocols and signaling.
- 14. a Explain the GPRS network architecture with neat sketch.

OR

- b Discuss in detail about HSCSD.
- 15. a Explain the UMTS architecture in detail.

OR

b What is HSPA? Explain.

Z-Z-Z

END