`Reg. No	Name	18U424
B.C.A DEGREE EN	ND SEMESTER EXAMINATION MA	ARCH 2018
SEMESTER – 4: BACHELOE	R OF COMPUTER APPLICATION (BC	Δ) (CORE COURSE)
	4: MOBILE DEVICE AND NETWORK	
	(For Regular - 2016 Admission)	ARCHITECTORE
Time: Three Hours	(10) Negular 2010 Admission)	Max. Marks: 75
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	SECTION A	
Answer <i>al</i>	\emph{I} questions. Each question carries $\emph{1}$ m	ark
1. Name two benefits of Digital Sig	nals.	
2. Define protocols used in transpo	ort layer in ISO/OSI Model.	
3. What is PLMN?		
4. What is SMSC?		
5. UMTS stands for	?	
6. List the operating frequencies of	f GSM.	
7. Define Care of Address [COA].		
8. Define the term wireless.		
9. Mention the uses of SS7 protoco	ol.	
10. Expand GSM, GPRS.		(1 x 10 = 10)
	SECTION B	
Answer <i>any Ei</i>	ight questions. Each question carries 2	? marks
11. Explain the terms: i) Local loop i	i) Trunk	
12. Explain fixed networks? Give exa	ample.	
13. What is the use of HLR and VLR?	?	
14. List out the various processing s	ubsystems in mobile phones.	
15. Explain the various GPRS suppor	rt nodes.	

- 16. List the differences between circuit and packet switched networks.
- 17. Define Bluetooth.
- 18. Briefly describe about the keypad frequencies used in mobile phones.
- 19. Describe the concept of Mobile Identity.
- 20. Define SIM. $(2 \times 8 = 16)$

SECTION C

Answer any Five questions. Each question carries 5 marks

- 21. Differentiate Analog & Digital communication
- 22. Describe the structure of PSTN

- 23. Describe the various entities used in mobile IP
- 24. Explain the function of RF Subsystems.
- 25. Explain various handset components.
- 26. What are the various types of handoff in cellular system?
- 27. Write short notes on Handset Bill of Materials.

 $(5 \times 5 = 25)$

SECTION D

Answer any Two questions. Each question carries 12 marks

- 28. Explain OSI Model in computer networks.
- 29. Explain SMS network architecture with necessary diagrams.
- 30. Explain with a neat diagram: GPRS network architecture
- 31. Describe in detail Handset Hardware architecture.

 $(12 \times 2 = 24)$
