С14-ЕС-604

4738

BOARD DIPLOMA EXAMINATION, (C-14) JUNE-2019

DECE - SIXTH SEMESTER EXAMINATION

MOBILE COMMUNICATION

Time: 3 Hours

Max.Marks:80

PART-A

10x3 = 30M

Instructions: 1) Answer all questions.

- 2) Each question carries three marks.
- 3) Answer should be brief and straight to the point and shall not exceed five simple sentence
- 1) Define Roamer.
- 2) Define uplink and downlink channels in mobile communication.
- 3) What is meant by co-channel interferece?
- 4) Define micro cell and umbrella cell.
- 5) State the need for multiple access techniqes.
- 6) State the near-far effect in CDMA.
- 7) List any three features of digital cellular system.
- 8) State any three features of N-AMPS.
- 9) Give any three advantages of 3G over earlier versions.
- 10) Mention any three features of EDGE system.
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PART-B	5x10=50M
 Instructions: 1) Answer any five questions 2) Each question carries ten marks. 3) The anwer should be comprehensive and valuation are the content but not the lenge 	the criteia for
11) a) Mention the functuons of mobile switching centre(M	SC). 3M
b) Explain the process of call progress in cellular tele	phone system. 7M
12) a) Explain the concept of frequncy reuse.	2M
b) Explain the channel assignment strategies in cellular s	systems briefly. 8M
13) List and explain the methods for improving channel ca	pacity.
14) a) Explain TDMA.	7M
b) List the features of TDMA.	3M
15) a) Explain the concept of Soft hand off in CDMA.	
b) Explin the concept of power control in CDMA	
16) a) Draw the GSM architeture.	
b) Explain GSM radio subsystem.	
17) a) Compare AMPS and GSM.	6M
b) Explain security aspects of GSM briefly.	4M
18) Draw and explain the DECT system.	
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