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C14-EC-604

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BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL--2018
DECE--SIXTH SEMESTER EXAMINATION

MOBILE COMMUNICATION

Time : 3 hours] WWW.Polytech4U.Com [Total Marks : 80

PART--A

3x10=30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed **five** simple sentences.

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1. State any three functions of mobile switching centre. ✓
 2. Define uplink channel and downlink channel in mobile communication. ✓
 3. Define the term co-channel interference in mobile communication. ✓
 4. Write a short note on micro-cell concept. ✓
 5. State the need for multiple access techniques. ✓
 6. List any three features of TDMA. ✓
 7. Mention the advantages of GSM over AMPS. ✓

8. Write any three specifications of AMPS. ✓
9. List the features of EDGE. ✓
10. Mention the features of GPRS. ✓

PART--B

10×5=50

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

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11. (a) Explain the evolution of cellular mobile phone systems. 6
(b) Draw the block diagram of basic cellular system. 4
 12. (a) Explain the cell splitting. 5
(b) Explain the concept of frequency reuse. 5
 13. (a) Describe the channel assignment strategies. 7
(b) Define system capacity. 3
 14. Explain about the concept of CDMA and mention the advantages. 6+4=10
 15. (a) Compare between TDMA and CDMA. 4
(b) Explain the frequency hopped spread spectrum (FHSS). 6
 16. (a) Describe the frame structure of GSM system with necessary diagram. 7
(b) List the features of Digital Cellular System. 3

17. (a) Explain GSM architecture with neat sketch. 6
(b) List the features of narrow band AMPS. 4
18. Draw the architecture of DECT and explain. 5+5=10

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