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C14-CM-604

4732

BOARD DIPLOMA EXAMINATION, (C-14)

JUNE—2019

DCME—SIXTH SEMESTER EXAMINATION

MOBILE COMMUNICATIONS

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=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.

1. Define cell in cellular system.
2. Draw the simplified reference model.
3. Define GSM.
4. List the different types of GSM services.
5. Write any three applications of satellite system.
6. Define Routing.
7. Write the difference between infrared and radio transmission.
8. Define scatternet.
9. Define DHCP.
10. Define reverse tunnelling.

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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

11. Draw and explain TCP/IP protocol architecture.
12. Explain GSM signalling protocols.
13. Explain handover types in GSM.
14. Explain the following :
 - (a) GEO
 - (b) LEO
15. Explain multimedia object transfer protocol.
16. Draw and explain the wireless LAN (WLAN) architecture with functions of each layer.
17.
 - (a) Explain the signalling commands.
 - (b) Explain the L2CAP channels.
18.
 - (a) Write any five features of 3G technology.
 - (b) Explain congestion control.

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