C 1052 (Pages : 2) Name.....

Reg. No.....

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EIGHTH SEMESTER B.TECH. (ENGINEERING) [09 SCHEME] DEGREE EXAMINATION, APRIL 2016

EC/PTEC 09 803 L20—MOBILE COMPUTING

Time : Three Hours Maximum : 70 Marks

Part A

1. What are the limitations of a GSM cell in terms of diameter and capacity ?
2. Discuss the advantages and disadvantages of WLAN.
3. Define agent advertisement.
4. What is the basic purpose of DHCP ?
5. Name the advantages and disadvantages of user acknowledgements in WTP.

(5 × 2 = 10 marks)

Part B

6. Why a new infrastructure is needed for GPRS, but not for HSCSD ? Which components are new and what is their purpose ?
7. How do IEEE802.11, HyperLAN2 and Bluetooth respectively, solve the hidden and terminal problem ?
8. How can DHCP be used for mobility and support of mobile IP ?
9. Explain the operation on WAP gateway.
10. Explain the principles of UMTS.
11. Explain about mobile number portability.

(4 × 5 = 20 marks)

Part C

12. Draw the basic architecture of the UTRAN and explain its working.

Or

13. Compare the features of GSM, GPRS and DECT.
14. Why is the PHY layer in IEEE802.11 subdivided ? What about hyperLAN2 and Bluetooth ?

Or

15. Explain WiMax in detail.

Turn over

16. Explain dynamic source routing algorithm in detail with an example.

Or

17. Explain the working of DHCP in detail.

18. Write a note on WML and WAP2.0 in detail.

Or

19. Draw the logical model of WAE and explain in detail.

(4 × 10 = 40 marks)