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Question Paper Code: 59224

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2019

Elective

Computer Science and Engineering

15UCS924- MOBILE COMPUTING

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. CDMA is the division of CO1-R
(a) Time (b) Phase. (c) Spectrum. (d) Code
2. Which provides a temporary IP address for a mobile device? CO2- R
(a) Care of Address (b) MAC protocols (c) IP data gram (d) IP server
3. Who sets the standards of GSM? CO3- R
(a) ITU (b) AT&T (c) ETSI (d) USDC
4. When a source node and destination node for a message is out of the CO4- R
radio range, the MANETs are capable of _____
(a) Care of Address (b) Multi-hop routing (c) Tunneling (d) Encapsulation
5. What is Manifest.xml in android? CO5- R
(a) It has information about layout in an application
(b) It has the information about activities in an application
(c) It has all the information about an application
(d) None of the above

PART – B (5 x 3= 15 Marks)

6. List the characteristics of mobile computing CO1- R
7. What is encapsulation in mobile IP? CO2- R
8. What are the main elements of UMTS? CO3- R

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| 9. | Define VANET. | CO4- U |
| 10. | List the pros and cons of MCommerce. | CO5- R |

PART – C (5 x 16= 80 Marks)

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| 11. | (a) (i) Explain the Structure of Mobile Computing Application | CO1- U | (8) |
| | (ii) Explain the three tier structure of Mobile computing Application. | CO1- U | (8) |
| | Or | | |
| | (b) Explain the various taxonomy of MAC protocols in detail? | CO1- U | (16) |
| | Or | | |
| 12. | (a) Define Mobile IP. Explain the key mechanism in mobile IP. | CO2- U | (16) |
| | Or | | |
| | (b) (i) With a neat diagram explain the architecture of TCP/IP. | CO2- U | (8) |
| | (ii) Explain the various improvements in TCP/IP performance with diagram. | CO2- U | (8) |
| 13. | (a) Explain the functional architecture of GSM System. | CO3-U | (16) |
| | Or | | |
| | (b) Explain GPRS and its protocol architecture. | CO3-U | (16) |
| 14. | (a) Explain the working of DSDV routing protocol using suitable examples | CO4-U | (16) |
| | Or | | |
| | (b) (i) Explain characteristics, applications of MANET. | CO4-U | (8) |
| | (ii) Draw and explain the architecture of VANET . | CO4-U | (8) |
| 15. | (a) Explain any 5 Commercial Mobile Operating systems in detail | CO5- U | (16) |
| | Or | | |
| | (b) Explain Mobile Payment System in detail with a suitable real-time example. | CO5-U | (16) |