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| **Roll Number** |  |  |  |  |  |  |  |

**KGiSL INSTITUTE OF TECHNOLOGY**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

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| **CLASS:** | **:** | **III B.Tech IT** | **MAX MARKS** | **:** | **75** |
| **SEMESTER:** | **:** | **VI** | **DURATION** | **:** | **02:00 Hrs** |
| **SUBJECT:** | **:** | **Mobile Computing** | **CODE** | **:** | **IT6601** |
| **COURSE NO** | : | **C311** | **DATE** | **:** | **25.01.2019** |
| **ACADEMIC YEAR** | : | **2018 – 19 (EVEN)** | **EXAM** | **:** | **INT TEST 2** |

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| **PART – A ( 10 X 2 = 20 Marks )** | | | | |
| **I** | **ANSWER ALL QUESTIONS** | | **BT**  **Level** | **Course Outcome** |
|  | 1. | What are all the services available in GSM? | R | C311:3 |
|  | 2. | What are the main elements of UMTS? | R | C311:3 |
|  | 3. | What is GPRS? | U | C311:3 |
|  | 4. | What are all the functions provided by RNS in UMTS? | R | C311:3 |
|  | 5. | What is Bearer Service in GSM? | R | C311:3 |
|  | 6. | List the characteristics of MANET? | R | C311:4 |
|  | 7. | Compare MANET vs VANET. | U | C311:4 |
|  | 8. | Compare Proactive vs Reactive protocols. | U | C311:4 |
|  | 9. | What is Distance Vector protocol? | R | C311:4 |
|  | 10. | What is routing? | U | C311:4 |

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| **PART – B ( 3 X 13 = 39 Marks )** | | | | | | | |
| **II** | **ANSWER ALL QUESTIONS** | | | | | **BT Level** | **Course Outcome** |
|  | 11. | (a) | (i) | Explain about GSM architecture in detail. | 13 | R | C311:3 |
| **( OR )** | | | | | | | |
|  |  | (b) | (i) | Explain about GSM Security in detail. | 13 | R | C311:3 |
|  | | | | | | | |
|  | 12. | (a) | (i) | Explain about UMTS architecture in detail. | 13 | R | C311:3 |
| **( OR )** | | | | | | | |
|  |  | (b) | (i) | Explain about handover procedures of GSM and UMTS. | 13 | R | C311:3 |
|  |  |  |  |  |  |  |  |
|  | 13. | (a) | (i) | Explain the design issues of MANET routing protocols in details. | 13 | U | C311:4 |
|  |  |  |  | **( OR )** |  |  |  |
|  |  | (b) | (i) | Explain about various security attacks on MANET. | 13 | U | C311:4 |
|  | | | | | | | |
| **PART – C ( 1 X 16 = 16 Marks )** | | | | | | | |
| **III** | **ANSWER ALL QUESTIONS** | | | | | **BT Level** | **Course Outcome** |
|  | 08. | (a) | (i) | Explain in detail about GPRS architecture. | 12 | U | C311:3 |
|  |  |  | (ii) | Give a short note on VANET. | 4 | U | C311:4 |

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| **COURSE OUTCOMES** | |
| **C311:1** | Understand the basic concepts of mobile computing. |
| **C311:2** | Be familiar with the network protocol stack. |
| **C311:3** | Learn the basics of mobile telecommunication system. |
| **C311:4** | Be exposed to Ad-Hoc networks. |
| **C311:5** | Gain knowledge about different mobile platforms and application development. |

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| **BLOOMS TAXONOMY LEVELS** | |
| **R** | Remember |
| **U** | Understand |
| **AP** | Apply |
| **AN** | Analyze |
| **E** | Evaluate |
| **C** | Create |

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| **Staff I/C(s)** | **HOD** | **Principal** |