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

**KGiSL INSTITUTE OF TECHNOLOGY**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CLASS:** | **:** | **III B.Tech IT** | **MAX MARKS** | **:** | **100** |
| **SEMESTER:** | **:** | **VI** | **DURATION** | **:** | **02:00 Hrs** |
| **SUBJECT:** | **:** | **Mobile Computing** | **CODE** | **:** | **IT6601** |
| **COURSE NO** | : | **C311** | **DATE** | **:** | **25.01.2019** |
| **ACADEMIC YEAR** | : | **2018 – 19 (EVEN)** | **EXAM** | **:** | **PRE MODEL 1** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PART – A ( 10 X 2 = 20 Marks )** | | | | |
| **I** | **ANSWER ALL QUESTIONS** | | **BT**  **Level** | **Course Outcome** |
|  | 1. | What is Mobile Computing? | R | C311:1 |
|  | 2. | Give a note on Random Assignment Scheme in MAC. | U | C311:1 |
|  | 3. | What is MAC protocol? | R | C311:1 |
|  | 4. | What is Mobile IP? | R | C311:2 |
|  | 5. | Define COA | R | C311:2 |
|  | 6. | What is agent discovery? | R | C311:2 |
|  | 7. | Give some examples of Mobile OS. | U | C311:5 |
|  | 8. | Differentiate E-Commerce and M-Commerce | U | C311:5 |
|  | 9. | What are all the features of Blackberry OS. | R | C311:5 |
|  | 10. | Define POS. | R | C311:5 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **PART – B ( 5 X 16 = 80 Marks )** | | | | | | | |
| **II** | **ANSWER ALL QUESTIONS** | | | | | **BT Level** | **Course Outcome** |
|  | 11. | (a) | (i) | Explain about fixed allocation schemes in MAC protocols | 13 | R | C311:1 |
| **( OR )** | | | | | | | |
|  |  | (b) | (i) | Explain Random Assignment scheme with a neat diagram. | 13 | R | C311:1 |
|  | | | | | | | |
|  | 12. | (a) | (i) | Explain about Improvement techniques in TCP to adapt with mobile technologies. | 13 | R | C311:2 |
| **( OR )** | | | | | | | |
|  |  | (b) | (i) | Explain about terminologies of Mobile IP and IP-within-IP encapsulation in detail | 13 | R | C311:2 |
|  |  |  |  |  |  |  |  |
|  | 13. | (a) | (i) | Compare and contrast different mobile operating systems | 13 | U | C311:5 |
|  |  |  |  | **( OR )** |  |  |  |
|  |  | (b) | (i) | Explain in detail about Android OS and it’s SDK | 13 | R | C311:5 |
|  |  |  |  |  |  |  |  |
|  | 14. | (a) | (i) | Explain about Mobile Commerce. | 13 | U | C311:5 |
|  |  |  |  | **(OR)** |  |  |  |
|  |  | (b) | (i) | Explain about Mobile Payment Systems. | 13 | U | C311:5 |
|  |  |  |  |  |  |  |  |
|  | 15. | (a) | (i) | Explain about structure and special requirements of mobile OS. | 13 | R | C311:5 |
|  |  |  |  | **(OR)** |  |  |  |
|  |  |  | (ii) | Explain about structure of M-Commerce applications and security issues in mobile payment systems. | 13 | R | C311:5 |

|  |  |
| --- | --- |
| **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. |

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

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