Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – Nov/Dec – 2017**

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| **Code :** | **14CS3071** | **Duration :** | **3hrs** |
| **Sub. Name :** | **PERVASIVE COMPUTING** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** |  | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Discuss about the fundamental paradigms of pervasive computing with relevant real time examples. | CO1 | 20 |
| (OR) | | | | |
| 2. |  | Explain the solution for the problem of identification of packages or products in logistics world of pervasive computing with relevant block diagrams and examples. | CO3 | 20 |
|  |  |  |  |  |
| 3. |  | Windows OS is a major tool that extends the idea of a Digital Nervous system to pervasive devices. Compare and contrast the architecture of two major operating systems Palm OS and Symbian OS with example applications. | CO1 | 20 |
| (OR) | | | | |
| 4. |  | Discuss the standards that were established to bring benefits of the internet to the mobile world with the necessary architectures. | CO1 | 20 |
|  |  |  |  |  |
| 5. |  | Explain in detail the typical client middleware components and their characteristics which leverage powerful end user applications with relevant block diagrams and applications. | CO1 | 20 |
| (OR) | | | | |
| 6. |  | Connectivity is a challenge in Pervasive environment. Describe how Bluetooth helps in terms of connectivity. | CO2 | 20 |
|  |  |  |  |  |
| 7. |  | List the various synchronization solutions. Explain in detail about syncML. | CO1 | 20 |
| (OR) | | | | |
| 8. |  | Consider a scenario where a printer could offer a printing service to all other devices, not only to a PC, but also a set-top box or service gateway etc... Explain how the software architecture meets the great demand for a mechanism that allows these devices to dynamically interact with each other and to offer services to other devices. | CO1 | 20 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Pervasive computing plays an important role in healthcare. Justify with two relevant scenarios. | CO2 | 20 |

ALL THE BEST