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 – 2016**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **Pervasive Computing** | **Duration :** | **3hrs** |
| **Sub. Name :** | **14CS3071** | **Max. marks :** | **100** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Elaborate on the principles underlying Pervasive Computing. | CO1 | 10 |
| b. | Explain in detail how the on-card and off-card communication happens in smart cards. | CO1 | 10 |
| (OR) | | | | |
| 2. |  | Describe in detail about the smart sensors and actuators. | CO1 | 20 |
| 3. |  | Why security is required in home networking? Explain the various types of home networking. | CO1 | 20 |
| (OR) | | | | |
| 4. |  | Elucidate in detail about the functionalities of Windows CE operating system. | CO1 | 20 |
| 5. |  | Explain about WAP 1.1 architecture. | CO1 | 20 |
| (OR) | | | | |
| 6. |  | Connectivity is a challenge in Pervasive environment. Describe how Bluetooth helps interms of connectivity. | CO1 | 20 |
| 7. |  | Pervasive computing plays an important role in healthcare. Justify with two relevant scenarios. | CO1 | 20 |
| (OR) | | | | |
| 8. |  | Why service discovery is required? Explain how UPnP helps in service discovery. | CO1 | 20 |
|  | | **Compulsory:** |  |  |
| 9. |  | List the various synchronization solutions. Explain in detail about syncML. | CO1 | 20 |

ALL THE BEST