

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER- VIII EXAMINATION – SUMMER 2015

Subject Code: 181106**Date: 05/05/2015****Subject Name: DEVICE DRIVER WRITING (D.E.-II)****Time: 10.30AM-01.00PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

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|------------|------------|---|-----------|
| Q.1 | (a) | Enlist few Basic commands of Linux. | 07 |
| | (b) | Explain Foreground & background with proper examples. | 07 |
| Q.2 | (a) | What is Shell Script? Explain with suitable example. | 07 |
| | (b) | Give the details of Stack, Queue and Trees in details. | 07 |
| OR | | | |
| | (b) | Complexity, Debugging & optimization in Data Structure. | 07 |
| Q.3 | (a) | Give the introduction of kernel in details. | 07 |
| | (b) | Explain Setting up the cross compilation tool chain on host machine. | 07 |
| OR | | | |
| Q.3 | (a) | Describe the directory structure in Kernel? | 07 |
| | (b) | Explain Device Driver Concept? | 07 |
| Q.4 | (a) | Explain User Space Driver APIs. | 07 |
| | (b) | How Loadable Modules Work. | 07 |
| OR | | | |
| Q.4 | (a) | Explain Compiling, Loading And Exporting. | 07 |
| | (b) | Give the details of Blocking and Wait Queues. | 07 |
| Q.5 | (a) | What are the Handling interrupt? | 07 |
| | (b) | Explain the Network Driver s in Details. | 07 |
| OR | | | |
| Q.5 | (a) | Explain the procedure of Booting panda Board. | 07 |
| | (b) | Explain the Implementation of UART Driver or Network Driver in details. | 07 |
