

GUJARAT TECHNOLOGICAL UNIVERSITY
ME - SEMESTER– II • EXAMINATION – SUMMER 2017

Subject Code:2725405**Date:26/05/2017****Subject Name: Embedded And Linux Programming****Time:02:30 PM to 05:00 PM****Total Marks: 70****Instructions:**

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

- Q.1** (a) Describe the generic architecture of Multi- Component System. **07**
(b) What do you mean by open source technology? Explain Ext2 and Ext3 file System. **07**
- Q.2** (a) What are the different boot configurations you studied? Discuss any two. **07**
(b) Discuss the Linux Kernel Module in detail. **07**
- OR**
- (b) Explain the terms: Loading, Debugging and Profiling. **07**
- Q.3** (a) Explain any five string manipulation library functions with examples. **07**
(b) What is the Run Time Environment? Explain in detail. **07**
- OR**
- Q.3** (a) What are the points to be taken into account while choosing the Linux Distribution? **07**
(b) What is the procedure to be followed in developing & testing the Linux Device Driver? **07**
- Q.4** (a) What are the different types of device drivers? Discuss any two in detail **07**
(b) Write a brief note on: (1) Squashfs (2) JFFS2 (3) Tmpfs **07**
- OR**
- Q.4** (a) Explain Linux System, Embedded Linux System and Real time Embedded Linux System. **07**
(b) Discuss various Host/Target Development set-up types. **07**
- Q.5** (a) What is an operator? Discuss various operators used in C programming. **07**
(b) Describe Tokens in C and Data types in detail. **07**
- OR**
- Q.5** (a) Explain different loops in C with suitable example. **07**
(b) What is structure? Also explain array of structure and structure within the structure with suitable example. **07**
