Reg. No.			

MANIPAL UNIVERSITY SCHOOL OF INFORMATION SCIENCES

SECOND SEMESTER MASTER OF ENGINEERING – **ME** (EMBEDDED SYSTEMS)
DEGREE EXAMINATION (MAKE-UP) – JULY 2016

SUBJECT: ESD 604 - DEVICE DRIVERS

Thursday, July 14, 2016

Time:	10.00 – 13.00 Hrs.	Max. Marks: 100
1.	Write a module to print the multiples of five. How do we compile	it? The code should be
	written in init_module.	(7+3 = 10 marks)
2.	Differentiate between kernel modules and applications.	(10 marks)
3.	Give details about current as applied to a process in linux.	(10 marks)
4.	Comment on dev_t and kdev_t structures used with respect to maje	or and minor numbers. (10 marks)
5.	What is a semaphore? Why do we use it?	(7+3 = 10 marks)
6.		ctory in the device file
	system?	(7+3 = 10 marks)
7.	How do we introduce long delays in linux kernel?	(10 marks)
8.	How can we write pausing data to I/O ports?	(10 marks)
9.	Why do we need to disable interrupts in interrupt handlers?	(10 marks)
10	O. Comment on use of lock variables to avoid race conditions in an i	nterrupt handler. (10 marks)

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