

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
SECOND SEMESTER M.TECH DEGREE EXAMINATION, MAY 2016

Electronics & Communication Engineering

(Telecommunication Engineering)

01EC6516 Embedded Systems For Communication

Max. Marks: 60

Duration: 3 Hours

(Answer any two questions from each part)

Part A

1. Describe the architecture of 8051. (9)
2. Explain the software the embedded into a system. (9)
3. a) What is meant by watchdog timer? Explain. (4)
b) Discuss device drivers. (5)

Part B

4. Discuss the various parallel communication bus protocols. (9)
5. What is meant by program models? Describe the various program models used in embedded systems. (9)
6. Describe the various network protocols used for internet connectivity in embedded systems. (9)

Part C

7. (a) What is Network Operating system? (4)
(b) Discuss briefly about various components of an Operating system. (8)
8. (a) Is RTOS necessary for an Embedded system? Justify your answer. (6)
(b) Compare Preemptive and Non-preemptive task scheduling with suitable examples. (6)
9. What are the features provided MicroC OS-II? Compare it with a General purpose operating system. (12)