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Total No. of Pages : 02

Total No. of Questions : 09

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B.Tech.(EE)(2011 Onwards E-III)

B.Tech.(Electrical & Electronics)(2011 & 2012 Batch E-III)

(Sem.-7,8)

EMBEDDED SYSTEMS

Subject Code : BTEE-805E

M.Code: 71946

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES :

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks 1. each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students 2. has to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students 3. has to attempt any TWO questions.

- 1.
- June Semaphore.
 b) What is shared data problem? Control of the Process.
 c) Define Process.
 d) Deff.

 - d) Define Message Queue.
 - e) What are the states of a process?
 - f) Define Real Time Clock (RTC)?
 - g) What are the main components of an embedded system?
 - h) Give the limitations of polling technique.
 - i) Name any two queue related functions for the inter task communications,
 - j) What is code memory?



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SECTION-B

- 2. Explain the goals of operating system services.
- 3. Explain the software tools in designing of an embedded system.
- 4. Explain how interrupt routines handled in embedded system
- 5. Explain Scheduling policies.
- 6. Compare RS-232 and RS845 serial interfaces.

SECTION-C

- 7. Classify and explain various types of embedded systems.
- 8. Explain the working of timers and counters in detail.
- 9. Explain the functions of various buses used during transfer of data.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.