**Rajasthan Institute of Engineering & Technology, Jaipur**

IV Year B. Tech VIII Semester II mid Term Examination, April – 2018

**Branch: - Computer Science and Engineering**

Subject : *Real Time Systems* Set: A

Time : 2 Hrs. [Maximum Marks: 20]

Instructions to Candidates: - Attempt all four questions. All questions carry equal marks.

Q1 Explain priority inversion? How it takes place, explain with an example? Also explain how it is related to critical section.

OR

Explain task level and job level dynamic priority driven scheduling.

Q2 what is RAC? Discuss the effects of resource contention.

OR

Explain aperiodic task scheduling with suitable example.

Q3 Explain the scheduling of flexible computations in detail.

OR

Explain priority driven scheduling with suitable example.

Q4 Describe rate monotonic and deadline monotonic algorithms with suitable example

OR

Explain slack steeling with suitable example.

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Instructions to Candidates: - Attempt all four questions. All questions carry equal marks.

Q1 Explain scheduling of mixed task set with suitable example.

OR

Explain priority inheritance protocol with suitable example

Q2 Differentiate RM and DM algorithm with suitable example..

OR

Explain scheduling of sporadic task set with suitable example.

Q3 Explain the optimality of RM and DM algorithm.

OR

Explain slack scheduling with suitable example.

Q4 Differentiate Fixed priority and Dynamic priority scheduling algorithm.

OR

Explain clock driven priority algorithm with suitable example.