

G.PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY (AT)

IV B.Tech II Semester 2nd Mid Examination - Objective

Branch: Computer Science and Engineering

Sub: Real Time Systems

Date: 04-04-17

Time: 20 mins

Max.Marks:10

Answer all the following:

Multiple choice questions:

- 1) In _____ systems priority of each task is fixed relative to other tasks. []
a) Dynamic priority b) Fixed priority c) both d) none.
- 2) The test conducted for the purpose of validating a given system is _____. []
a) Validation test b) Schedulability test c) Verification test d) none.
- 3) _____ mapping is a natural mapping. []
a) uniform b) sequential c) linear d) none
- 4) A pair of task T_1 and T_2 are simply periodic if their respective periods p_1 & p_2 are such that p_2 is a _____ of p_1 . []
a) multiple b) divisor c) power d) none.
- 5) Each period which begins at the release time of a job with the peak execution time is called a _____. []
a) Peak frame b) Normal frame c) Initial frame d) none
- 6) In _____ mapping there are more system priority levels at the higher-priority end of the assigned priority range. []
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- 9) A _____ protocol is a set of rules that govern how jobs are scheduled. []
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- 10) The _____ of a subtask is a chain of one or more contiguous subtasks. []
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a) blocked b) directly blocked c) partially blocked d) none
- 12) The vertex of a wait-for-graph contains _____. []
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- 13) A Critical section that is not included in other critical sections is called _____. []
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Fill in the blanks:

16) An algorithm is _____ if it produces only correct schedules of the system.

17) A task that behaves more or less like a periodic task and is created for the purpose of executing aperiodic jobs is called _____.

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19) According to the two-level scheme, each application is executed by a _____.

20) A system of independent, preemptable sporadic jobs is schedulable according to the EDF algorithm if the total density of active jobs in the system is no greater than _____ at all times.

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