

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow

M.Tech

FIRST YEAR (SEMESTER-II) THEORY EXAMINATION (2020-2021)

(Subjective Type)

Subject Code: AMTCSE0201

Max. Mks. : 30

Subject: High Performance Computing

Time : 50 Minutes

General Instructions:

All questions are compulsory.

Question No. 1 to 15 are subjective type question carrying 3 marks each. Attempt any 10 out of 15 questions.

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty
1	Define the multi thread.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
2	What is the Partitioning?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
3	What are the different steps of pipe-line execution?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
4	Define the multi core processor.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
5	What is cache hit?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
6	Define the symmetric multi processor.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
7	List out the parallel algorithm models.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
8	Define the Master and slave model.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty
9	Write the properties of the Red-Block trees.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
10	What is Scheduler?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
11	Define the process synchronization. What is the need of process synchronization?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
12	Define PGAS. Explain.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
13	Define the bottleneck problem.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
14	Define the CPU utilization.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
15	Write the different types of performance limitations .		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant