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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: AMTCSE0216 **Max. Mks. : 30**

Subject: Advanced Computer Architecture **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 Computer Architecture.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
2	What is the need of bus arbitration?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
3	How floating point numbers are represented in a computer system?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
4	Define microinstruction		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
5	Draw an instruction format		Attempt any 10 questions	10 x 3=30	3		Subjective	Smart
6	Define effective address.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
7	How hazards can be avoided in pipelining?		Attempt any 10 questions	10 x 3=30	3		Subjective	Smart
8	Define speed up.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
9	List out the phases of an instruction pipeline		Attempt any 10 questions	10 x 3=30	3		Subjective	Smart

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty
10	What is the need of address translation?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
11	Define coherence.		Attempt any 10 questions	10 x 3=30	3		Subjective	Smart
12	Differentiate between private and shared virtual memory.		Attempt any 10 questions	10 x 3=30	3		Subjective	Smart
13	Define vector processing.		Attempt any 10 questions	10 x 3=30	3		Subjective	Smart
14	List out two features of PRAM model		Attempt any 10 questions	10 x 3=30	3		Subjective	Smart
15	Draw SIMD architecture		Attempt any 10 questions	10 x 3=30	3		Subjective	Smart