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Roll No.

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: AMTVL0201

Subject: Digital Design Using FPGA and CPLD

Max. Mks. : 30

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	Туре	Difficulty
1	Draw the state diagram for T FF		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
2	What will be the output for the expression $Y=A.B + C.D$, when $A=0$, $B=1$, $C=1$ and $D=0$.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
3	Define Static hazard.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
4	Draw the characteristics Table for JK FF.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
5	What is the difference between synchronous and asynchronous circuit?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
6	Classify PLDs.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
7	Differentiate between PAL and PLA.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
8	Write short notes on reprogrammable features of PLDs.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
9	What is Full custom design style in VLSI Design?	age 1 of 2	Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Туре	Difficulty
10	Give some differences between FPGA and ASIC.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
11	What does a Modern FPGAs include other than simple FPGAs? Explain it.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
12	What is LAB and EAB related to ALTERA FLEX 10K?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
13	Write Functional Description of Altera Max 5000 Series.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
14	What is ispLSI?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
15	What do you mean by static 1 hazard?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant