BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS: BRANCH:

EEE/CSE/ECE

SUBJECT: EC3201-DIGITAL ELECTRONICS

SEMESTER : III SESSION: MO/16

FULL MARKS: 60

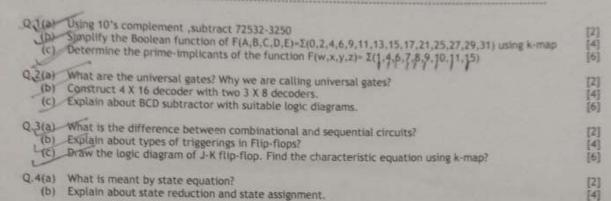
[6]

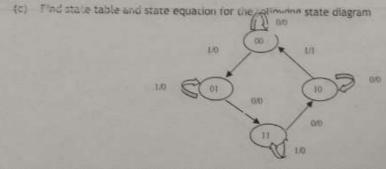
TIME:

03:00

## INSTRUCTIONS:

- 1. The question paper contains 7 questions each of 12 marks and total 84 marks.
- 2. Candidates may attempt any 5 questions maximum of 60 marks.
- 3. The missing data, if any, may be assumed suitably.
- 4. Before attemptine the question paper, be sure that you have got the correct question paper. 5. Tables/Data hand book/Graph paper etc. to be supplied to the can lidates in the examination half.
- 6. Nothing should be written on front or back of the question paper except tick marking.





Q.5(a)	Implementation of a 2: 1 Multiplexer Using CMOS Transmission Gates.	[2]
(b)	Implement X-OR gate using CMOS logic.	[4]
(c)	Explain the working operation of NAND gate using TTL logic.	[6]
Q.6(a) Why bistable multivibrator only used for flip-flops.		[2]

- (b) Explain working principle of monostable multivibrator and why it is called as one shot multivibrator (c) Explain the operation of Schmitt trigger using op amp. [6]
- Q. Z(a) What is the major difference between PAL and PLA? (b) Explain about static ROM with circuit diagrams. [4]
- (c) Implement BCD to grey converter using PAL logic.

\*\*\*\*\*25/11/16\*\*\*\*\*E

