



Sardar Patel Institute of Technology
Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058, India
(Autonomous College Affiliated to University of Mumbai)

Mid Semester Examination

March 2019

Max.Marks: 20

Class: S.E.

Course Code: EL43

Name of the Course: Computer Organization and Architecture

Duration: 60 Min

Semester: IV

Branch: Electronics

Instruction:

- (1) All questions are compulsory
- (2) Draw neat diagrams
- (3) Assume suitable data if necessary

Q No.		Max. Marks	CO
Q.1	A) Perform $(12) \times (3)$ using booth's algorithm Or B) Calculate $(31) / (7)$ using non restoring division algorithm	05	CO2
Q.2	Explain Driving factors behind the need to design for performance	05	CO1
Q.3	A) Differentiate between Von Neumann and Harvard Architecture Or B) Draw and explain ARM architecture	05	CO1
Q.4	With help of neat diagram explain 1 bit memory cell and calculate number of external connections required for 64Kilo bytes Memory	05	CO4