



# 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: IT42/CE44

Name of the Course: Computer Organization and Architecture

Duration: 1 Hour

Semester: IV

Branch: IT/Computer

### Instruction:

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

Q No.		Max. Marks	CO
Q.1	With neat diagram, describe the general structure of IAS computer.	06	CO1
Q.2	Compute using Booths Algorithm $(12) * (-6)$ OR Apply Restoring Division Algorithm to solve the following example. Dividend = 13 Divisor = 5	04	CO2
Q.3	Use Single Precision IEEE 754 format compute the following. $(17.18)_{10} + (7.28)_{10}$	04	CO2
Q.4	How data flows occurs in each phase of Instruction cycle?	06	CO3