

Code: 9A05406

SS

B.Tech II Year II Semester (R09) Supplementary Examinations May/June 2016

COMPUTER ORGANIZATION
(Electrical & Electronics Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Explain various performance measures used to represent computer performance.
(b) Give the single precision representation for 42.75 and 16.125.
- 2 Write notes on Skip and Subroutine call instructions. Illustrate with an example.
- 3 Describe how mapping from instruction code to microinstruction is done. Also explain about subroutines.
- 4 (a) Give the register configuration for floating point arithmetic operation.
(b) Explain the decimal multiplication algorithm with a suitable example.
- 5 (a) Discuss the concepts of system space and user space.
(b) Draw a flow chart and explain the look-through system of cache organization
- 6 (a) What is the need for controlling device requests? What are the mechanisms used to control device request?
(b) What are exceptions? Explain different types of exceptions.
- 7 (a) Explain the 2-way instruction pipelining and 3-way instruction pipelining
(b) Write notes on RISC pipeline.
- 8 Explain the closely coupled systems without and with private cache.
