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Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, MAY 2016

Sixth Semester

Branch: Electronics and Communication Engineering

EC 010 604—COMPUTER ARCHITECTURE AND PARALLEL PROCESSING (EC)

(New Scheme—2010 Admission onwards)

[Regular/Improvement/Supplementary]

Time: Three Hours

Maximum: 100 Marks

Part A

Answer all questions.

Each question carries 3 marks.

- 1. Discuss the differences between Architecture and Hardware.
- 2. What are the different types of division techniques?
- 3. What is static RAM?
- 4. What are Interconnection networks?
- 5. What is SMPS?



 $(5 \times 3 = 15 \text{ marks})$

Part B

Answer all questions.

Each question carries 5 marks.

- 6. Explain stored program concept.
- 7. Discuss the steps involved in the execution of a complete instruction.
- 8. Discuss the bus standards.
- 9. Explain the pipelining hazards.
- 10. Discuss dual core processors.

 $(5 \times 5 = 25 \text{ marks})$

Part C

Answer all questions.

Each question carries 12 marks.

- 11. (a) Explain Assemblers, Linkers and Loaders.
 - (b) Discuss the functions of OS.

(8 marks)

(4 marks)

Or

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 $[5 \times 12 = 60 \text{ marks}]$