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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FIRST SEMESTER M.TECH DEGREE EXAMINATION, DECEMBER 2015

Computer Science and Engineering

(Computer Science and Systems Engineering)

04CS6413 Computer Systems Engineering

Max. Marks : 60   Duration: 3 Hours

Part A(Answer all ,each carrying 3 marks)

1.What is the importance of Complexity in engineering?

2.What is meant by RPC?

3.What are the problems created by congestion?

4.What do you mean by the term availability?

5.What is the need for Atomicity?

6.What do you mean by consistency?

7.How is the issue of old data solved in DNS?

8.How do you enforce authenticity?

[03 * 08 =24 Marks]

Part B(Answer all,each carrying 6 marks)

9. Explain the importance of Systems engineering in Computer Science?
                              Or
10.Explain the various factors adding to the complexity of a system.

11.Explain the working of DNS
                              Or
12.Explain the concept of virtual addresses and modularity

13.Explain the methods used to control congestion
                              Or
14.Explain about the evolution of modularity in Intel X86 architecture.

15.What are the challenges faced and their resolution in Ethernet to internet transactions?
                              Or
16.Explain the relevance of redundancy in fault tolerance.

17.Explain about the atomicity in Machine languages
                              Or
18.Explain about atomicity enforcement for threads.

19.Explain the concept of cache coherence.
                              Or
20.Explain the concept of message confidentiality.

[06 * 06 =36 Marks]